INDEX TO VOLUME 9

AUTHOR INDEX

ABARBANEL, A. R.: Artificial reproduction of the cyclic changes in cervical mucus in human castrates: with clinical correlations, 479

——: Intravenous estrogen in menometrorrhagia in the human, 681†

——: Management of threatened abortion in the human with large doses of diethylstilbestrol, 669†

——; HOYT, R., and LEVINE, M. G.: Pregnanediol excretion in cases of blighted ovum, 676†

ABERNATHY, E., *see* LYONS, W. R., 679†

ADLERSBERG, D. and MAYER, M. E.: Results of prolonged medical treatment of obesity with diet alone, diet and thyroid preparations, and diet and amphetamine, 275*

ALBERT, A. and KEATING, F. R., JR.: Metabolic studies with I^{131} labeled thyroid compounds. Comparison of the distribution and fate of radioactive *d-l*-thyroxine after oral and intravenous administration in the human, 1406*

——; RALL, J. E.; KEATING, F. R., JR.; POWER, M. H., and WILLIAMS, M. M. D. The behavior of labeled thyroglobulin and labeled thyroxine in patients with myxedema, 1392

——, *see* GASTINEAU, C. F., 615*

——, *see* HAMILTON, C. F., 828*

ALBRIEUX, A. S. and MUSSIO FOURNIER, J. C.: (Letter to the Editor) The local action of testosterone propionate on the development of axillary hair in man, 1434*

ALBRIGHT, F., *see* BARTTER, F. C., 663†

——, *see* ELRICK, H., 665†

ALEXANDER, B., *see* VRIES, A. DE., 398

ALEXANDER, S. B. and TUCKER, H. ST. G., JR.: Pseudohypoparathyroidism. Report of a case with late manifestations, 862*

ALTSCHULE, L. H., *see* ALTSCHULE, M. D., 548*

ALTSCHULE, M. D.; ALTSCHULE, L. H., and TILLOTSON, K. J.: Changes in urinary uric acid-creatinine ratio after electrically induced convulsions in man, 548*

——; PARKHURST, B. H., and TILLOTSON, K. J.: Decreases in blood eosinophilic leukocytes after electrically induced convulsions in man, 440*

ANDERSON, E. and HAYMAKER, W.: Studies in carbohydrate metabolism in decerebrate rats, 670†

——; KINSELL, L. W.; DANIELS, T. C., and HENDERSON, E.: The treatment of Addison's disease by the intraoral administration of desoxycorticosterone acetate tablets, 1324*

ARGONZ, J., *see* CASTILLO, E. B. DEL., 1362*

ASTWOOD, E. B., *see* GREER, M. A., 1069*

AYRE, W. B. and AYRE, J. E.: Vaginal smear glycogen: limitations as an index of estrogen activity, 1359*

AYRE, J. E., *see* AYRE, W. B., 1359*

BADER, R. A., *see* STEIN, H. J., 529*

BAKER, J. R., *see* SEARLE, W. N., 112

BAKER, L. A., *see* STONE, H. H., 895*

BALZE, F. A. DE LA: The progesterone withdrawal test or "medical curettage." Diagnosis and classification of amenorrheas, 110

BAMFORD, S., *see* NIEBURGS, H. E., 673†

BARNES, R. H., *see* PALMER, L. J., 395

BARTELS, E. C.: Basal metabolism testing under pentothal anesthesia, 1190*

——: Propylthiouracil; its use in the preoperative treatment of severe and complicated hyperthyroidism, 297

BARTTER, F. C.; FORBES, A. P.; JEFFERIES, W. M.; CARROLL, E. L., and ALBRIGHT, F.: The mechanism of action of testosterone in the therapy of Cushing's syndrome, 663†

——, *see* ELRICK, H., 665†

BAS, J. A., *see* SCHWEITZER, F. L., 297

BASS, D. E., *see* STEIN, H. J., 529*

BATES, R. W., *see* COHEN, H., 667†

BEIRNE, D. P., *see* SCHWARTZMAN, J., 396

BELLER, C. and TURNER, H. H.: Effects of

* Original article.

† Abstract of paper presented at the Thirty-first Annual Meeting of The Association for the Study of Internal Secretions.

Other items are abstracts of articles which appeared in current medical journals and miscellaneous entries.

small doses of testosterone propionate on spermatogenesis, 666†
BENDER, S.: The value of the Guterman test in threatened abortion, 110
BENNETT, L. L.; SLESSOR, A., and THORN, G. W.: Effect of compound E on blood ketone bodies, 675†
——, *see* FORSHAM, P. H., 660†
BENNETT, W. A., *see* RALL, J. E., 1379*
——, *see* SPRAGUE, R. G., 672†
BERGMANN, A. J. and MILLER, L. C.: The androgenic activity of new esters of testosterone, 679†
BERGNER, G. E., *see* SWANK, R. L., 401
BERTHRONG, M.; GOODWIN, W. E., and SCOTT, W. W.: Estrogen production by the testis, 579*
BICKERS, W.: Progesterone: a comparison of intramuscular, oral and sublingual routes of administration, 736*
BIRNIE, J. H., *see* BOSS, W. R., 658†
BISKIND, G. R. and BISKIND, M. S.: The effect of castration, of unilateral castration, and of pregnancy in unilaterally castrate rats on the ovary transplanted into the spleen, 667†
BISKIND, M. S., *see* BISKIND, G. R., 667†
BLACK, B. M.: Surgical treatment of carcinoma of the thyroid gland, 1422*
——, *see* WHITESELL, F. B., JR., 1202*
BLACK, H. M., *see* GOLDSMITH, E. D., 674†
BLACK, R., *see* ZONDEK, B., 402
BLOCK, P., *see* SALTER, W. T., 1080*
BLOOM, W.: Pituitary implications in hypertrophic pulmonary osteoarthropathy, 297
BOAS, N. F. and JAILER, J. W.: On the inability of adrenocorticotropic hormone or epinephrine to deplete the ascorbic acid of the chick adrenal, 655†
BOEKELMAN, A. J.: The thyroid as a regulator of potassium metabolism, 106
BOSS, W. R.; BIRNIE, J. H., and GAUNT, R.: Renal function in normal and adrenalectomized rats following saline or adrenal steroid administration, 658†
BOWERS, J. Z.: Hyperthyroidism occurring at an early age in dissimilar twins, 298
BOYLE, D., *see* PASCHKIS, K. E., 658†
BRADBURY, J. T., *see* LEATHEM, J. H., 385*
——, *see* BROWN, W. E., 725*
BRADY, R. O., *see* RICHARDS, C. E., 1107*
BROCKHURST, R. J., *see* RICHARDS, C. E., 446*
BROH-KAHN, R. H., *see* MIRSKY, I. A., 395
BROOKS, J., *see* FANCHER, J. K., 682†
BROWN, E. J., JR.: Recipient of the 1941 Ayerst, McKenna and Harrison fellowship of the Association for the Study of Internal Secretions, 685
BROWN, W. E. and BRADBURY, J. T.: The use of the human vaginal smear in the assay of estrogens, 725*
BRUNS, H. J., *see* HURXTHAL, L. M., 1245*
BRZEZINSKI, A., *see* ZONDEK, B., 402
BUKA, R., *see* FREEDBERG, A. S., 841*
BURNETT, C. H.; BURROWS, B. A., and COMMONS, R. R.: A mechanism of potassium deficiency in alkalosis, 676†
BURNS, T. W., *see* SAYERS, G., 593*
BURROWS, B. A., *see* BURNETT, C. H., 676†

CAHILL, G. F.: Pheochromocytomas, 108
CALKINS, E.; DANA, G. W.; SEED, J. C., and HOWARD, J. E.: Piperido-methylbenzodioxane (933-F): Some pharmacological and experimental observations, 651†
CAMES, O., *see* STAFFIERI, J. J., 255*
CAÑADELL, J. M., *see* VILANOVA, X., 883*
CANTAROW, A., *see* D'ANGELO, S. A., 653†
——, *see* PASCHKIS, K. E., 658†
CAREN, R.: The goitrogens in thyrotoxicosis complicating pregnancy. A case report, 903*
CAREY, R. A., *see* HOWARD, J. E., 691*
CARROLL, E. L., *see* BARTTER, F. C., 663†
——, *see* FORBES, A. P., 680†
CASTILLO, E. B. DEL.; ARGONZ, J., and GALLI MAININI, C.: Smears from the female urethra and their relationship to smears of the urinary sediment, 1362*
CATTELL, R. B.: Surgical treatment of hyperthyroidism, 999*
CHAMBERS, W. L.: Adrenal cortical carcinoma in a male with excess gonadotropin in the urine, 451*
CHAPMAN, E. M.: Treatment of Graves' disease with radioactive iodine, 298
CHARLES, C. M., *see* EDWARDS, J. C., 655†
CHENG, CHI-PING: Regulation of pituitary adrenocorticotropic activity by adrenal cortical hormones, 656†
CID, J. M., *see* STAFFIERI, J. J., 255*
CLARK, S., *see* GREENBLATT, R. B., 668†
COHEN, H. and BATES, R. W.: The occurrence of conjugated sulfates of estrogens in human pregnancy urine, 667†
COHN, C., *see* WOLFSON, W. Q., 497*, 666†, 749*
COLE, W. H.; MAJARAKIS, J. D., and SLAUGHTER, D. P.: Incidence of carcinoma of the thyroid in nodular goiter, 1007*
COLEMAN, T. H., *see* RICHARDS, C. E., 446*
COLVIN, F. M., *see* TIPTON, S. R., 684†
COMMONS, R. R., *see* BURNETT, C. H., 676†
CONN, J. W. and VOGEL, W. C.: Effects of prolonged adrenal cortical stimulation upon free and esterified serum cholesterol in normal men, 656†

CONNOR, A. C.; CURTIS, G. M., and SWENSON, R. E.: A simplified method for the determination of the protein-bound blood iodine and its clinical application, 1185*
COOPER, I. S. and HOEN, T. I.: Gynecomastia in paraplegic males. Report of seven cases, 457*
COPE, O.; DOBYNS, B. M.; HAMLIN, E., JR., and HOPKIRK, J.: What thyroid nodules are to be feared?, 1012*
COPPEDGE, R. L. and SEGALOFF, A.: A method for the assay of prolactin in human urine, 653†
CORTELL, R.: Second honorable mention for the 1949 Van Meter prize award of the American Goiter Association, 688
——: The antithyroxine activity of thyroxine analogs, 955*
COVIAN, M. R.: Role of emotional stress in the survival of adrenalectomized rats given replacement therapy, 678†
CRAMPTON, J. H.; SCUDDER, S. T., and DAVIS, C. D.: Carbohydrate metabolism in the combination of diabetes mellitus and Addison's disease, as illustrated by a case, 245*
——, *see* PALMER, L. J., 395
CRILE, G., JR., *see* HAZARD, J. B., 1216*
CRUMRINE, J. L., *see* PRESTON, F. W., 1314*
CRUSIUS, M. E., *see* SCHWARTZMAN, J., 396
CURTIS, G. M., *see* CONNOR, A. C., 1185*

DANA, G. W., *see* CALKINS, E., 651†
D'ANGELO. S. A.; GORDON, A. S.; PASCHKIS, K. E., and CANTAROW, A.: Thyrotropic and thyroid hormone assay of normal and pathologic human sera in the stasis tadpole, 653†
DANIELS, T. C., *see* ANDERSON, E., 1324*
DANOWSKI, T. S.; HEDENBURG, S., and GREENMAN, J. H.: The constancy of the serum precipitable or protein-bound iodine in healthy adults, 768*
DANZIGER, L. and KINDWALL, J. A.: Thyroid therapy in some mental disorders, 298
DAUGHADAY, W. H. and MACBRYDE, C. M.: Changes in urinary steroids produced by sodium deprivation and by desoxycorticosterone acetate administration, 661†
DAVENPORT, H. W., *see* SAYERS, G., 593*
DAVIS, C. D., *see* CRAMPTON, J. H., 245*
DAVIS, M. E. and HULIT, B. E.: Changes in circulating eosinophils in women during the menstrual cycle and reproduction, 714*
DAVISON, R. A.; KOETS, P., and KUZELL, W. C.: Effect of roentgenotherapy on urinary 17-ketosteroid excretion in ankylosing spondylarthritis, 79*
DAVISON, T. C. and LETTON, A. H.: Hashimoto's disease, 980*
DEAL, R. V., *see* KINSELL, L. W., 671†
DE LA BALZE, F. A., *see* BALZE, F. DE LA
DEL CASTILLO, E. B., *see* CASTILLO, E. B. DEL
DELFS, E., *see* JONES, G. E. S., 743*
DEMPSEY, E. F., *see* FOURMAN, P., 660†
DEMPSEY, W. S., *see* DINSMORE, R. S., 1043*
——, *see* HAZARD, J. B., 1216*
DE ROBERTIS, E., *see* ROBERTIS, E. DE
DEVIS-VANDEN EECKHOUDT, M., *see* DEVIS, R., 1436*
DEVIS, R. and DEVIS-VANDEN EECKFOUDT, M.: (Letter to the Editor) The urinary corticosteroid excretion in pre-eclampsia and eclampsia, 1436*
DE VRIES, A., *see* VRIES A. DE
DINSMORE, R. S.; DEMPSEY, W. S., and HAZARD, J. B.: Lymphosarcoma of the thyroid, 1043*
DOBYNS, B. M.; SKANSE, B., and MALOOF, F.: A method for the preoperative estimation of function in thyroid tumors; its significance in diagnosis and treatment, 1171*
——, *see* COPE, O., 1012*
DONOVAN, T. J., *see* ZIMMERMANN, B., 398
DREKTER, I. J., *see* WEISSBERG, J., 673†, 1259*
DUFFY, B. J., *see* TRUNNELL, J. B., 1138*
DUMM, M. E.; ROTH, P.; OVANDO, P., and RALLI, E. P.: The white blood cell response of rats to adrenalectomy, stress and pantothenic acid, 678†
——, *see* RALLI, E. P., 652†

EATON, J. C., *see* MUNRO, H. N., 48*
EDWARDS, J. C.; CHARLES, C. M., and MACBRYDE, C. M.: The evaluation of the use of the anterior pituitary extract in the treatment of pituitary dwarfism, 655†
ELIOT, J. W., *see* STEIN, H. J., 529*
ELRICK, H.; BARTTER, F. C.; SUTPHIN, A., and ALBRIGHT, F.: Pseudo-hypoparathyroidism: a report of two new cases with special reference to the epiphyseal changes, 665†
ENGEL, F. L.: Stimulation of nitrogen metabolism by adrenal cortical extract during insulin hypoglycemia, 657†
——, *see* TEABEAUT, R., 663†
ENGELMAN, M., *see* TWOMBLY, G. H., 112
ESCARDÓ, F., *see* REFORZO-MEMBRIVES, J., 1333*
ESCHER, G. C., *see* TALBOT, T. R., JR., 666†
ETTLINGER, M. C., *see* GREER, M. A., 1069*
EVA, M. L., *see* LLOYD, C. W., 268*
EVANS, H. M.: Recipient of the 1949 Squibb

award of the Association for the Study of Internal Secretions, 686

FABER, M., *see* GOLDENBERG, M., 652†
FABRYHART, M. and PACELLA, B. L.: Association of spontaneous hypocalcemia and electrocerebral dysfunction, 398
FANCHER, J. K. and BROOKS, J.: The incidence of cancer in endocrine case histories, 682†
FARRIS, E. J.: The prediction of the day of human ovulation by the rat test as confirmed by fifty conceptions, 110
FINKLER, R. S.: The effect of vitamin E in the menopause, 89*
FITZGERALD, P. K. and FOOTE, F. W., JR.: The function of various types of thyroid carcinoma as revealed by the radioautographic demonstration of radioactive iodine (I^{131}), 1153*
FLANAGAN, E. K., *see* MARGEN, S., 662†
FLINK, E. B., *see* FORSHAM, P. H., 660†
FLUHARTY, R. G., *see* MCARTHUR, J. W., 299
FOOTE, FRANK W., JR., *see* FITZGERALD, P. J., 1153*
——, *see* FRAZELL, EDGAR L., 1023*
FORBES, A. P.; CARROLL, E. L., and WHEELER, M. L.: A comparison of the 17-ketosteroid excretion of cases of Cushing's syndrome due to adrenal tumor with those due to hyperplasia (hyperfunction), 680†
——, *see* BARTTER, F. C., 663†
FORD, N. W., *see* LEECH, R. S., 394
FOREMAN, N., *see* SOLEY, M. H., 29*
FORSHAM, P. H.; BENNETT, L. L.; ROCHE, M.; REISS, R. S.; SLESSOR, A.; FLINK, E. B., and THORN, G. W.: Clinical and metabolic changes in Addison's disease following the administration of compound E acetate (11-dehydro, 17-hydroxy-corticosterone acetate), 660†
——, *see* REISS, R. S., 659†
——, *see* THORN, G. W., 109
FOSTER, W. C., *see* MCCLENDON, J. F., 680†
FOURMAN, P.; KEPLER, E. J.; REIFENSTEIN, E. C., JR., and DEMPSEY, E. F.: Effect of a single dose of desoxycorticosterone acetate on electrolyte metabolism, 660†
FOURNIER, J. C. MUSSIO, *see* MUSSIO FOURNIER, J. C.
FRANKEL, J. J., *see* STONE, H. H., 895*
FRANKLIN, W. and LOWELL, F. C.: On the preparation of human insulin for experimental use, 481*
FRAZELL, E. L. and FOOTE, F. W., JR.: The natural history of thyroid cancer. A review of 301 cases, 1023*
FREEDBERG, A. S.; BUKA, R., and MCMANUS, M. J.: Comparative value and accuracy of measurements of urinary I^{131} by beta and by gamma ray counting, 841*
FRIED, P. H.: The two hour pregnancy test, based on rat ovary hyperemia, 479
——, *see* RAKOFF, A. E., 668†
FRIEDMAN, C. L., *see* FRIEDMAN, S. M., 109
FRIEDMAN, N. B.: Cellular involution in the thyroid gland. Significance of Hürthle cells in myxedema, exhaustion atrophy, Hashimoto's disease and the reactions to irradiation, thiouracil therapy and subtotal resection, 874*
FRIEDMAN, S. M.; FRIEDMAN, C. L., and POLLEY, J. R.: Potentiation of the hypertensive effects of desoxycorticosterone acetate by various sodium salts, 109
FUNNELL, J. W., *see* HELLBAUM, A. A., 668†
FUTCHER, P. H., *see* GOLDMAN, M. L., 622*
——, *see* KRISS, J. P., 13*

GALLI MAININI, C.: Pregnancy test using the male batrachia, 399
——, *see* CASTILLO, E. B. DEL, 1362*
GASTINEAU, C. F.; ALBERT, A., and RANDALL, L. M.: The renal clearance of chorionic gonadotropic hormone in pregnancy, in neoplasm of the testis and in hydatidiform mole, 615*
GAUNT, R., *see* BOSS, W. R., 658†
GERMAN, W. J., *see* PETERS, J. P., 1292*
GERSTNER, R. and GORDON, A. S.: Effects of hemopoietic agents on blood formation in hypophysectomized rats, 676†
GLEN, A., *see* MUNRO, H. N., 48*
GOLDENBERG, M. and FABER, M.: Norepinephrine in adrenal medulla, 652†
GOLDMAN, M. L.; SCHROEDER, H. A., and FUTCHER, P. H.: Coarctation of the aorta associated with abnormal digits, ovarian insufficiency and shortness of stature, 622*
GOLDSMITH, E. D.; BLACK, H. M., and NIGRELLI, R. F.: The effect of pteroylglutamic acid antagonists on the response of the reproductive accessories of C57 male mice to testosterone, 674†
GOLDZIEHER, J. W.: A new colorimetric method for the determination of pregnandiol, 399
—— and STONE, G. C. H.: A rapid colorimetric method for the determination of sodium in biological fluids, 95*
—— and STONE, G. C. H.: The relative independence of sodium and chloride excretion, 368*
GOODWIN, L. D., *see* WERNER, S. C., 664†
GOODWIN, W. E., *see* BERTHRONG, M., 579*
GORDON, A. S., *see* D'ANGELO, S. A., 653†

——, *see* GERSTNER, R., 676†
GREEN, D. M.: Mechanisms of desoxycorticosterone action, 478
GREENBLATT, R. B.; CLARK, S., and WEST, R. M.: Hormonal factors producing the gametokinetic response in the male frog (Rana pipiens), 668†
——, *see* NIEBURGS, H. E., 673†
GREENMAN, J. H., *see* DANOWSKI, T. S., 768*
GREENWALD, I.: The problem of endemic goiter in Yunnan province, 684†
GREER, M. A.; ETTLINGER, M. G., and ASTWOOD, E. B.: Dietary factors in the pathogenesis of simple goiter, 1069*
GROPPER, M., *see* LYONS, W. R., 679†
GROSS, J., *see* LEBLOND, C. P., 149*
GUTERMAN, H. S. and SCHROEDER, M. S.: A simplified technique for the quantitative colorimetric estimation of pregnandiol in urine, 479
——, *see* WOLFSON, W. Q., 497*, 749*

HAIN, A. M.: An unusual case of precocious puberty associated with ovarian dysgerminoma, 1349*
HAINES, M., *see* SEARLE, W. N., 112
HAINES, S. F., *see* HAMILTON, C. F., 828*
——, *see* KELSEY, M. P., 171*
——, *see* PEMBERTON, JOHN DEJ., 1232*
HALBRECHT, J.: Further observations on the basal temperature in sterile women, 110
HALL, G. J.: (Letter to the Editor) The buccal administration of estradiol, 382*
HAMILTON, C. F.; ALBERT, A.; POWER, M. H.; HAINES, S. F., and KEATING, F. R., JR.: The behavior of labeled iodocasein in human myxedema, 828*
HAMILTON, J. B.: Quantitative measurements of the growth of axillary hair as an index of the endocrine status, 665†
HAMLIN, E., JR., *see* COPE, O., 1012*
HARE, H. F., *see* HURXTHAL, L. M., 126*
HARINGTON, C. R., *see* LERM[illegible] J., 1099*
HAVEL, L., *see* HORLICK, L., [illegible]
HAYLES, A. B., *see* SPRAGUE, [illegible], 672†
HAYMAKER, W., *see* ANDERSON, [illegible], 670†
HAZARD, J. B.; CRILE, G., JR., and DEMPSEY, W. S.: Nonencapsulated sclerosing tumors of the thyroid, 1216*
——, *see* DINSMORE, R. S., 1043*
HECKEL, G. P.: The problem of allergy to steroid hormones, 681†
HEDENBURG, S., *see* DANOWSKI, T. S., 768*
HEFTMANN, E., *see* WILKERSON, H. L. C., 397
HEINEMANN, M.; JOHNSON, C. E., and MAN, E. B.: Serum precipitable iodine concentrations during pregnancy, 299
HELLBAUM, A. A.; FUNNELL, J. W., and KEATY, E. C.: Action of estrogens on release of luteinizing hormone in menopausal women, 668†
HELLER, C. G., *see* JUNGCK, E. C., 355*
HELMREICH, M. L., *see* SAMUELS, L. T., 674†
HENDERSON, E., *see* ANDERSON, E., 1324*
HERRMAN, J. B.; KIRSTEN, E., and KRAKAUER, J. S.: Hypercalcemic syndrome associated with androgenic and estrogenic therapy, 1*
HERTZ, J.: Studies on thyrotoxicosis, 299
HIBBS, R. E., *see* MCCULLAGH, E. P., 107
HILES, C.: Gastric secretory response in hypoglycemia as produced during insulin shock therapy, 394
HILL, R., *see* TRUNNELL, J. B., 1138*
HILLS, A. G., *see* THORN, G. W., 109
——, *see* ROCHE, M., 662†
HOEN, T. I., *see* COOPER, I. S., 457*
HOFFMAN, M. M., *see* MCINTOSH, H. W., 661†
——, *see* WALSH, G. C., 670†
HOLLANDER, G. H. and MANDELBAUM, H.: The treatment of angina pectoris with propylthiouracil, 106
HOPKIRK, J., *see* COPE, O., 1012*
HORLICK, L. and HAVEL, L.: The effect of feeding propylthiouracil and cholesterol on the blood cholesterol and arterial intima in the rat, 106
HORRAX, G., *see* HURXTHAL, L. M., 126*
HOSKINS, R. G.: (Editorial) More light on the biochemistry of diabetes, 1238*
——: (Editorial) The thyroid-pituitary apparatus as a servo (feed-back) mechanism, 1429*
HOWARD, J. E. and CAREY, R. A.: The use of potassium in therapy, 691*
——, *see* CALKINS, E., 651†
HOYT, R., *see* ABARBANEL, A. R., 676†
HRUBY, F. J., *see* MCCULLAGH, E. P., 113*
HUDDLESTUN, B., *see* WOLFSON, W. Q., 749*
HUGHES, E. C., *see* LLOYD, C. W., 268*, 636*, 654†
HULIT, B. E., *see* DAVIS, M. E., 714*
HUNT, H. D., *see* WOLFSON, W. Q., 497*, 749*
HURXTHAL, L. M.; HARE, H. F.; HORRAX, G., and POPPEN, J. L.: The treatment of acromegaly, 126*
——; BRUNS, H. J., and MUSULIN, N.: Development of spermatogenesis in hypogonadism, 1245*

JACKSON, A. S.: Henry S. Plummer, M. D., 967*
JAFFE, H., *see* WILLIAMS, R. H., 801*
JAGER, B. V., *see* SAYERS, G., 593*
JAILER, J. W.: The metabolism of the estrogens: a review, 557*
——: The effect of dietary protein on the

ability of the liver to inactivate estradiol in the rat, 675†
——, *see* BOAS, N. F., 655†
——, *see* KNOWLTON, A. I., 514*
JEFFERIES, W. M.: Recipient of the 1949 Van Meter prize award of the American Goiter Association, 687
——: Studies of the relationship of the thyrotropic, exophthalmic and fat-mobilizing principles of pituitary extract. I. The effect of various dosages of pituitary extract upon the production of exophthalmos and the mobilization of fat in intact and thyroidectomized guinea pigs, 913*
——: II. The effect of iodination of pituitary extract upon these three principles, 927*
——: III. The effect of adrenocorticotropic hormone (ACTH) and desoxycorticosterone acetate (DOCA) upon exophthalmos and fat mobilization in guinea pigs, 937*
——, *see* BARTTER, F. C., 663†
JOHNSON, B., *see* LESLIE, S. H., 682†
JOHNSON, C. E., *see* HEINEMANN, M., 299
JONES, G. E. S.; DELFS, E., and STRAN, H. M.: The effect of alpha-tocopherol administration on pregnanediol excretion, 743*
JOSEPH, H., *see* TOBIAN, L., JR., 677†
JUNGCK, E. C.; MADDOCK, W. O.; HELLER, C. G., and NELSON, W. O.: Antihormone formation complicating pituitary gonadotropin therapy in infertile men. II. Effect on number of sperm, morphology of the testis and urinary gonadotropins, 355*

KADOTA, K., *see* WOLFSON, W. Q., 497*, 666†, 749*
KANTER, A. E. and KLAWANS, A. H.: Shock from posterior pituitary extract, 106
KARANDIKAR, G., *see* SALTER, W. T., 1080*
KAY, G. A., *see* WILLIAMS, R. H., 107
KAZMIN, V. E., *see* VENNING, E. H., 659†
KEATING, F. R., JR., *see* ALBERT, A., 1406*
——, *see* HAMILTON, C. F., 828*
——, *see* KELSEY, M. P., 171*
——, *see* PEMBERTON, J. DEJ., 1232*
——, *see* RALL, J. E., 1379*
KEATING, R. P., *see* SCHULMAN, J., JR., 664†
KEATY, E. C., *see* HELLBAUM, A. A., 668†
KELSEY, M. P.; HAINES, S. F., and KEATING, F. R., JR.: Radioiodine in the study and treatment of thyroid disease: a review, 171*
KENIGSBERG, S.; PEARSON, S., and MCGAVACK, T. H.: The excretion of 17-ketosteroids. I. Normal values in relation to age and sex, 426*
KEPLER, E. J., *see* FOURMAN, P., 660†
KEUTMANN, E. H., *see* WATERHOUSE, C., 109
KINDWALL, J. A., *see* DANZIGER, L., 298
KINSELL, L. W.; MARGEN, S.; MICHAELS, G. D.; SIGNOROTTI, B. T., and MCCALLIE, D. P.; with the technical assistance of THOMPSON, V. T.; DEAL, R. V., and LODUCA, P.: Studies in fat metabolism. I. Steroid hormonal effects upon blood ketones and other intermediate products of fat and protein catabolism, 671†
——, *see* ANDERSON, E., 1324*
——, *see* MARGEN, S., 662†
KIRSCH, H., *see* TYLER, E. T., 480
KIRSNER, J. B., *see* LEVIN, E., 399
KIRSTEN, E., *see* HERRMANN, J. B., 1*
KLAWANS, A. H., *see* KANTER, A. E., 106
KNIGHT, W. R.: Theca-cell tumors of the ovary with a report of 15 cases and a review of the literature, 111
KNOWLTON, A. I. and KRITZLER, R. A.: The development of diabetes mellitus in Addison's disease. Case report with autopsy, 36*
KNOWLTON, A. I.; MUDGE, G. H., and JAILER, J. W.: Pregnancy in Addison's disease. Report of four patients, 514*
KOETS, P.: The excretion of 17-ketosteroids in idiopathic hirsutism, 795*
——, *see* DAVISON, R. A., 79*
KOREF, O., *see* VARGAS, L., 818*
KRAKAUER, K. S., *see* HERRMANN, J. B., 1*
KREVSKY, D., *see* WOLFSON, W. Q., 666†
KRISS, J. P. and FUTCHER, P. H.: Renal excretion and reabsorption of salt in Cushing's syndrome after intravenous administration of hypertonic sodium chloride, 13*
KRITZLER, R. A., *see* KNOWLTON, A. I., 36*
KULLANDER, S.: Investigations into the determination of pregnanediol according to the Guterman method, 111
KUZELL, W. C., *see* DAVISON, R. A., 79*

LADUE, J. S.; MURISON, P. J., and PACK, G. T.: The use of tetraethylammonium bromide as a diagnostic test for pheochromocytoma, 478
LAKEN, B., *see* RALLI, E. P., 652†
LEATHEM, J. H. and BRADBURY, J. T.: (Letter to the Editor) Antihormone formation during chorionic gonadotropin therapy, 385*
—— and RAKOFF, A. E.: Further studies of antigonadotropin formation in man, 654†
LEBLOND, C. P. and GROSS, J.: The mechanism of the secretion of thyroid hormone, 149*
LECOMPTE, P. M.: Width of adrenal cortex in lymphatic leukemia, lymphosarcoma and hyperthyroidism, 158*

LEECH, R. S. and FORD, N. W.: A simple bedside method for the estimation of blood sugar, 394
LERMAN, J. and HARINGTON, C. R.: Physiologic activity of tetrabromthyronine and tetrachlorthyronine, 1099*
LESLIE, S. H.; JOHNSON, B., and RALLI, E. P.: Renal clearances in patients with cirrhosis of the liver, with and without ascites, 682†
——, *see* RALLI, E. P., 652†
LETTON, A. H., *see* DAVISON, T. C., 980*
LEVEDAHL, B. H., *see* SAMUELS, L. T., 674†
LEVIN, E.; KIRSNER, J. B., and PALMER, W. L.: Preliminary observations on histamine and insulin stimulated gastric secretion during the injection of an enterogastrone concentrate in man, 399
LEVIN, L.: The possible involvement of the adrenal cortex and thyroid in mobilization of fat to the liver, 657†
LEVINE, M. G., *see* ABARBANEL, A. R., 676†
LEVINE, R., *see* WOLFSON, W. Q., 497*, 666†, 749*
LLOYD, C. W.; HUGHES, E. C.; EVA, M. L., and LOBOTSKY, K.: The urinary excretion of chorionic gonadotropin by human females following parenteral administration of aqueous or beeswax solutions, 268*
——; MORLEY, M.; MORROW, K.; LOBOTSKY, J., and HUGHES, E. C.: Estimation of urinary gonadotropin of the nonpregnant human by the mouse uterine weight and ovarian hyperemia responses, 636*, 654†
LOBOTSKY, J., *see* LLOYD, C. W., 268*, 636*, 654†
LODUCA, P., *see* KINSELL, L. W., 671†
LOESER, A. A.: The action of intravenously injected sex hormones and other substances on the blood flow in the human endometrium, 111
LONGWELL, B. B., *see* MATSON, C. F., 646*
LOWELL, F. C., *see* FRANKLIN, W., 481*
LUGOVOY, J. K., *see* PINCUS, J. B., 400
LUSSICH SIRI, J. J., *see* MUSSIO FOURNIER, J. C., 555*
LYONS, W. R.; ABERNATHY, E., and GROPPER, M.: Effect of androgen and growth hormone on the rat's os penis, 679†

MACBRYDE, C. M., *see* EDWARDS, J. C., 655†
——, *see* DAUGHADAY, W. H., 661†
MACK, H. C.; PARKS, A. E., and MCDONALD, M.: The pregnandiol precipitation test. Further observations on clinical applications and technic, 234*
MADDOCK, W. O.: Antihormone formation complicating pituitary gonadotropin therapy in infertile men, 213*
——, *see* JUNGCK, E. C., 355*
MAJARAKIS, J. D., *see* COLE, W. H., 1007*
MAININI, C. GALLI, *see* GALLI MAININI, C.
MALOOF, F., *see* DOBYNS, B. M., 1171*
MAN, E. B., *see* HEINEMANN, M., 299
——, *see* PETERS, J. P., 107, 1292*
——, *see* ROBBINS, C. L., 377*
MANDELBAUM, H., *see* HOLLANDER, G. H., 106
MANDERNACH, D. M., *see* THOMPSON, W. O., 300
MANNING, J. C., JR., *see* WINSAUER, H. J., 774*
MARGEN, S.; KINSELL, L. W.; FLANAGAN, E. K.; SUITER, L. E., and RAPAPORT, E., with the technical assistance of THOMPSON, V. T.: Is the protein metabolic abnormality of Cushing's syndrome catabolic or anti-anabolic? 662†
——, *see* KINSELL, L. W., 671†
MARINELLI, L. D., *see* TRUNNELL, J. B., 1138*
MASON, E. H., *see* WALSH, G. C., 670†
MASON, H. L. and SPRAGUE, R. G.: Isolation of 17-hydroxycorticosterone from the urine in a case of Cushing's syndrome associated with severe diabetes mellitus, 478
——, *see* MCARTHUR, J. W., 672†
——, *see* SPRAGUE, R. G., 672†
MATSON, C. F. and LONGWELL, B. B.: The excretion of neutral lipid-soluble reducing substances by infants, 646*
MAYER, M. E., *see* ADLERSBERG, D., 275*
MCALPINE, H. T., *see* WALSH, G. C., 670†
MCARTHUR, J. W.; RAWSON, R. W.; FLUHARTY, R. G., and MEANS, J. H.: The urinary excretion of radioactive iodine as an aid in the diagnosis of hyperthyroidism, 299
——; SPRAGUE, R. G., and MASON, H. L.: The urinary excretion of corticosteroids in diabetic acidosis, 672†
MCCALLIE, D. P., *see* KINSELL, L. W., 671†
MCCLENDON, J. F.; FOSTER, W. C., and REED, E.: The "thiocyanate space" and "iodide space" in the thyroid gland, 680†
MCCLINTOCK, L., *see* TWOMBLY, G. H., 112
MCCULLAGH, E. P.; HIBBS, R. E., and SCHNEIDER, R. W.: Propylthiouracil in the treatment of hyperthyroidism, 107
—— and HRUBY, F. J.: Testis-pituitary interrelationship. The relative inability of testosterone to reduce urinary gonadotropin in eunuchoid men, 113*
MCDONALD, M., *see* MACK, H. C., 234*
MCEACHERN, D., *see* WAUGH, D., 486*

McGAVACK, T. H., *see* KENIGSBERG, S., 426*
——, *see* VOGEL, M., 480
——, *see* WEISSBERG, J., 673†, 1259*
McHENRY, E. W.; SEMMONS, E. M.; PEARSE, R., and MEYER, E. G.: Observations on the ketosteroid content of urine from patients with prostatic carcinoma and adenoma, 399
McINTOSH, H. W.; SINGER, B., and HOFFMAN, M. M.: The evaluation of adrenocortical function by ascertaining the response to a single injection of adrenocorticotropin, 661†
McMANUS, M. J., *see* FREEDBERG, A. S., 841*
MEANS, J. H.: Confessions of an elderly thyroidologist, 974*
——: Present day trends in thyroid research, 300
——: (Letter to the Editor) Thyrotoxicosis factitia, 1432*
——, *see* McARTHUR, J. W., 299
MEISTER, L., *see* STARR, P., 330*
MELICOW, M. M.: The role of the adrenal cortex in some somato-sexual aberrations in infants and children, 674†
MELLO, M. I.: Care and maintenance of toads and frogs in captivity, for the performance of Galli Mainini's pregnancy test, 1372*
MELLOW, J., *see* VOGEL, M., 480
MERCHANTE, F. R.: Pregnancy test with the reaction of Galli Mainini, 400
MEYER, E. G., *see* McHENRY, E. W., 399
MICHAELS, G. D., *see* KINSELL, L. W., 671†
MILLARD, E. B. and ROOT, H. F.: Degenerative vascular lesions and diabetes mellitus, 394
MILLER, E. R., *see* SOLEY, M. H., 29*
MILLER, L. C., *see* BERGMANN, A. J., 679†
MIRSKY, I. A.; PODORE, C.J.; WACHMAN, J., and BROH-KAHN, R. H.: The urinary excretion of insulin by normal and diabetic subjects, 395
MOEHLIG, R. C.: (Letter to the Editor) Insulin therapy for relief of pain in osteitis deformans, 385*
MORISON, C. R.: An investigation of the causes of sterility and lowered fertility in West African Negroes, 111
MORLEY, M., *see* LLOYD, C. W., 636*, 654†
MORROW, K., *see* LLOYD, C. W., 636*, 654†
MOSENTHAL, H. O.: Management of diabetes mellitus; an analysis of present day methods of treatment, 395
MUDGE, G. H., *see* KNOWLTON, A. I., 514*
MUNRO, H. N.; EATON, J. C., and GLEN, A.: Survey of a Scottish diabetic clinic. A study of the etiology of diabetes mellitus, 48*
MURISON, P. J., *see* LaDUE, J. S., 478
MUSSIO FOURNIER, J. C.; POLLACK, E., and LUSSICH SIRI, J. J.: Loss of axillary and pubic hair in a patient with Addison's disease and regular menstruation, 555*
—— and POU DE SANTIAGO, A.: Utero-tubal persufflation curve in myxedema. Effect of thyroid therapy, 285*
——, *see* ALBRIEUX, A. S., 1434*
MUSULIN, N., *see* HURXTHAL, L. M., 1245*

NATELSON, S., *see* PINCUS, J. B., 400
NELSON, W. O., *see* JUNGCK, E. C., 355*
NIEBURGS, H. E.; GREENBLATT, R. B., and BAMFORD, S.: Correlation of vaginal smears and endometrial biopsies in normal cycles and in gynecic disorders, 673†
NIGRELLI, R. F., *see* GOLDSMITH, E. D., 674†

OSHRY, E., *see* SEIDLIN, S. M., 1122*
OVANDO, P., *see* DUMM, M. E., 678†

PACELLA, B. L., *see* FABRYHART, M., 398
PACK, G. T., *see* LaDUE, J. S., 478
PALMER, L. J.; CRAMPTON, J. H., and BARNES, R. H.: Pregnancy in the diabetic, 395
PALMER, W. L., *see* LEVIN, E., 399
PARKHURST, B. H., *see* ALTSCHULE, M. D., 440*
PARKS, A. E., *see* MACK, H. C., 234*
PARSON, W., *see* SEGALOFF, A., 1273*
PASCHKIS, K. E.; CANTAROW, A., and BOYLE, D.: Adrenal cortical hormone in blood, 658†
——, *see* D'ANGELO, S. A., 653†
PAYNE, S., *see* TYLER, E. T., 480
PEACOCK, W., *see* TRUNNELL, J. B., 1138*
PEARSE, R., *see* McHENRY, E. W., 399
PEARSON, S., *see* KENIGSBERG, S., 426*
PEMBERTON, J. deJ.; HAINES, S. F., and KEATING, F. R., JR.: The current treatment of hyperthyroidism, A., 1232*
PERLMAN, R. M.: Spermatogenesis following the administration of androgen and gonadotropin in a case of eunuchoidism. Coincidental neoplasm during therapy, 163*
PERLMUTTER, M. and RIGGS, D. S.: Thyroid collection of radioactive iodine and serum protein-bound iodine concentration in senescence, in hypothyroidism and in hypopituitarism, 430*
PETERS, J. P.; GERMAN, W. J., and MAN, E. B.: Serum precipitable iodine in patients with tumors of or near the pituitary, 1292*
—— and MAN, E. B.: The relation of albumin to precipitable iodine of serum, 107
PETIT, D. W., *see* STARR, P., 330*

PINCUS, I. J.: A hyperglycemic factor extracted from the pancreas, 669†
PINCUS, J. B.; NATELSON, S., and LUGOVOY, J. K.: Response of citric acid levels to oral administration of glucose. II. Abnormalities observed in the diabetic and convulsive state, 400
PINTO VIÉGAS, A., *see* VIÉGAS, A. PINTO
PLASS, J. B.: (Letter to the Editor) Hypersensitivity to pitressin, 650*
PODORE, C. J., *see* MIRSKY, I. A., 395
POLLACK, E., *see* MUSSIO FOURNIER, J. C., 555*
POLLEY, J. R., *see* FRIEDMAN, S. M., 109
POPPEN, J. L., *see* HURXTHAL, L. M., 126*
POSNER, C.: The effect of testosterone propionate in a case of pituitary tumor observed for nine years, 372*
POTTNER, M. M., *see* SAMUELS, L. T., 674†
POU DE SANTIAGO, A., *see* MUSSIO FOURNIER, J. C., 285*
POWER, M. H., *see* ALBERT, A., 1392*
——, *see* HAMILTON, C. F., 828*
——, *see* RALL, J. E., 1379*
——, *see* SPRAGUE, R. G., 672†
PRESTON, F. W.; TAYLOR, S. G., III, and CRUMRINE, J. L.: The effect of testosterone propionate on metastases to bone from carcinoma of the breast, 1314*
PRUNTY, F. T. G., *see* THORN, G. W., 109

QUIMBY, E. H., *see* WERNER, S. C., 342*, 664†

RAAB, W. and SMITHWICK, R. H.: Pheochromocytoma with hypothalamic manifestations and excessive hypermetabolism, 782*
RAKOFF, A. E. and FRIED, P. H.: The hormonal pattern in pseudocyesis, 668†
——, *see* LEATHEM, J. H., 654†
RALL, J. E.; KEATING, F. R., JR.; POWER, M. H., and BENNETT, W. A.: The distribution of radioiodine in a patient with metastatic adenocarcinoma of the thyroid: report of a case, 1379*
——, *see* ALBERT, A., 1392*
RALLI, E. P.; LESLIE, S.; STUECK, G. H., JR.; DUMM, M. E., and LAKEN, B.: Studies on an anti-diuretic, non chloruretic substance extracted from urines of normal and cirrhotic subjects, 652†
——, *see* DUMM, M. E., 678†
——, *see* LESLIE, S. H., 682†
RAMEY, P. M., *see* SCOTT, A. C., Jr., 1048*
RANDALL, L. M., *see* GASTINEAU, C. F., 615*
RAPAPORT, E., *see* MARGEN, S., 662†
RAWSON, R. W., *see* MCARTHUR, J. W., 299
——, *see* TRUNNELL, J. B., 1138*
REED, E., *see* MCCLENDON, J. F., 680†
REED, J. A.: Statistical analysis of deaths from diabetes in the District of Columbia for a period of 42 years—1903–1944 inclusive. Preliminary report and analysis: a comparison of two five-year periods, 1903–1907 and 1940–1944, 396
REFORZO-MEMBRIVES, J.; TRABUCCO, A., and ESCARDÓ, F.: A case of rudimentary testes, delayed growth and congenital malformations (Turner's syndrome in a male), 1333*
REIFENSTEIN, E. C., JR., *see* FOURMAN, P., 660†
REISS, R. S.; FORSHAM, P. H., and THORN, G. W.: Studies on the interrelationship of adrenal and thyroid function, 659†
——, *see* FORSHAM, P. H., 660†
REVENO, W. S.: Treatment of postoperative hyperthyroidism with antithyroid drugs 1054*
RICHARDS, C. E.; BRADY, R. O., and RIGGS, D. S.: Thyroid hormone-like properties of tetrabromthyronine and tetrachlorthyronine, 1107*
——; BROCKHURST, R. J., and COLEMAN, T. H.: Thiocyanate goiter with myxedema. Report of two cases, 446*
RIGGS, D. S., *see* PERLMUTTER, M., 430*
——, *see* RICHARDS, C. E., 1107*
RIPSTEIN, M. P., *see* VENNING, E. H., 659†
ROBBINS, C. L. and MAN, E. B.: Absorption and clinical effect of a large single dose of thyroid globulin, 377*
ROBERTIS, E. DE: Proteolytic activity in the physiology, pathology and therapeutics of the thyroid gland, 298
ROCHE, M.; HILLS, A. G., and THORN, G. W.: The level of circulating eosinophils as an indicator of adrenal cortical adequacy following major surgery, 662†
——, *see* FORSHAM, P. H., 660†
ROGERS, W. F., JR., *see* WILLIAMS, R. H., 801*
ROOT, H. F., *see* MILLARD, E. B., 394
ROSENBERG, E. F., *see* WOLFSON, W. Q., 497*, 749*
ROSSMAN, I., *see* SEIDLIN, S. M., 1122*
ROTH, P., *see* DUMM, M. E., 678†

SALTER, W. T.; KARANDIKAR, G., and BLOCK, P.: Organic and inorganic iodine, their reciprocal metabolic fates, 1080*
SAMUELS, L. T.; LEVEDAHL, B. H.; HELMREICH, M. L., and POTTNER, M. M.: Synthesis of testosterone from androstenedione-3,17 by testis tissue, 674†
——, *see* SAYERS, G., 593*
——, *see* WEST, C. D., 665†
SANTIAGO, A. POU DE, *see* POU DE SANTIAGO, A.

SAYERS, G.: Recipient of the 1949 Ciba award of the Association for the Study of Internal Secretions, 685
——: Adequacy of pituitary adrenocorticotropic function in nutritional deficiencies, 656†
——; BURNS, T. W.; TYLER, F. H.; JAGER, B. V.; SCHWARTZ, T. B.; SMITH, E. L.; SAMUELS, L. T., and DAVENPORT, H. W.: Metabolic actions and fate of intravenously administered adrenocorticotropic hormone in man, 593*
SCHMIDT, C., *see* WERNER, S. C., 342*
SCHNEEBERG, N. G.: (Letter to the Editor) Glucose tolerance in osteitis deformans, 907*
SCHNEIDER, R. W., *see* MCCULLAGH, E. P., 107
SCHORR, S., *see* ULLMANN, T. D., 401
SCHROEDER, H. A., *see* GOLDMAN, M. L., 622*
SCHROEDER, M. S., *see* GUTERMAN, H. S., 479
SCHULMAN, J., JR. and KEATING, R. P.: Metabolism and distribution of thiourea in the rat as measured with radioactive sulfur, 664†
SCHWARTZ, T. B., *see* SAYERS, G., 593*
SCHWARTZMAN, J.; CRUSIUS, M. E., and BEIRNE, D. P.: Diabetes mellitus in infants under one year of age: report of a case and review of the literature, 396
SCHWEITZER, F. L. and BAS, J. A.: Evaluation and differentiation of the various gonadotropic hormones by their action on the male toad, 297
SCOTT, A. C., JR. and RAMEY, P. M.: Total thyroidectomy in the management of diffuse toxic goiter, 1048*
SCOTT, W. W., *see* BERTHRONG, M., 579*
SCUDDER, S. T., *see* CRAMPTON, J. H., 245*
SEARLE, W. N.; HAINES, M., and BAKER, J. K.: Virilizing tumours of the ovary, 112
SEED, J. C., *see* CALKINS, E., 651†
SEED, L.: Mediastinal emphysema and pneumothorax following thyroidectomy. Report of two cases, 987*
SEGALOFF, A.: The relative effectiveness of desoxycorticosterone acetate in oil solution and in pellets diluted with cholesterol, 677†
——: (Letter to the Editor) Ethinyl estradiol, 573*
——; WEED, J. C.; STERNBERG, W. H., and PARSON, W.: The progesterone therapy of human uterine leiomyomas, 1273*
——, *see* COPPEDGE, R. L., 653†
SEIDLIN, S. M.; ROSSMAN, I.; OSHRY, E., and SIEGEL, E.: Radioiodine therapy of metastases from carcinoma of the thyroid; a six-year progress report, 1122*
SELYE, H.: The alarm reaction and the diseases of adaptation, 479
SEMMONS, E. M. and MCHENRY, E. W.: Urinary pregnanediol determination as a test of pregnancy, 852*
——, *see* MCHENRY, E. W., 399
SEVRINGHAUS, E. L.: Use of estrogens in medicine, 480
SHEARMAN, A. M., *see* WEISSBERG, J., 673†, 1259*
SIEGEL, E., *see* SEIDLIN, S. M., 1122*
SIGNOROTTI, B. T., *see* KINSELL, L. W., 671†
SIMPSON, S. L.: Addison's disease and diabetes mellitus in three patients, 403*
SINGER, B., *see* MCINTOSH, H. W., 661†
SIRI, J. J. LUSSICH, *see* LUSSICH SIRI, J. J.
SKANSE, B., *see* DOBYNS, B. M., 1171*
SLAUGHTER, D. P., *see* COLE, W. H., 1007*
SLESSOR, A., *see* BENNETT, L. L., 675†
——, *see* FORSHAM, P. H., 660†
SMITH, E. L., *see* SAYERS, G., 593*
SMITHWICK, R. H., *see* RAAB, W., 782*
SOLEY, M. H.; MILLER, E. R., and FOREMAN, N.: Graves' disease: treatment with radioiodine (I^{131}), 29*
SPEERT, H.: Ovarian granulosa cell tumor and acromegaly, 630*
SPRAGUE, R. G.; HAYLES, A. B.; MASON, H. L.; POWER, M. H., and BENNETT, W. A.: "Steroid diabetes" associated with Cushing's syndrome and excretion of 17-hydroxycorticosterone (compound F) in urine; metabolic studies, 672†
——, *see* MASON, H. L., 478
——, *see* MCARTHUR, J. W., 672†
STAFFIERI, J. J.; CAMES, O., and CID, J. M.: Corticoadrenal tumor with hypoglycemic syndrome, goiter, gynecomastia and hepatosplenomegaly, 255*
STALLWORTHY, J.: Facts and fantasy in the study of female infertility, 112
STANLEY, M. M.: First honorable mention for the 1949 Van Meter prize award of the American Goiter Association, 687
——: The direct estimation of the rate of thyroid hormone formation in man. The effect of the iodide ion on thyroid iodine utilization, 941*
STARR, P.; PETIT, D. W.; MEISTER, L., and STIRRETT, R. L.: Therapeutic studies in hyperthyroidism: propylthiouracil, 330*
STEIN, H. J.; BADER, R. A.; ELIOT, J. W., and BASS, D. E.: Hormonal alterations in men exposed to heat and cold stress, 529*
STERNBERG, W. H., *see* SEGALOFF, A., 1273*
STIRRETT, R. L., *see* STARR, P., 330*
STONE, G. C. H., *see* GOLDZIEHER, J. W., 95*, 368*

STONE, H. H.; FRANKEL, J. J., and BAKER, L. A.: Generalized insulin allergy, 895*
STRAN, H. M., *see* JONES, G. E. S., 743*
STUART, H. C.: Physical growth during adolescence, 400
STUECK, G. H., JR., *see* RALLI, E. P., 652†
SUITER, L. E., *see* MARGEN, S., 662†
SULMAN, F., *see* ZONDEK, B., 402
SUTPHIN, A., *see* ELRICK, H., 665†
SWANK, R. L. and BERGNER, G. E.: A study of the human myogram. A study of normals, and of patients with Addison's disease, thyrotoxicosis and progressive muscular atrophy, 401
SWENSON, R. E., *see* CONNOR, A. C., 1185*

TAGNON, R., *see* WILLIAMS, R. H., 801*
TALBOT, T. R., JR. and ESCHER, G. C.: The effects of testosterone propionate on the peripheral blood and bone marrow of women with advanced inoperable carcinoma of the breast. Preliminary report, 666†
TAYLOR, H. M., *see* TEABAEUT, R., 663†
TAYLOR, S. G., III, *see* PRESTON, F. W., 1314*
TEABEAUT, R.; ENGEL, F. L., and TAYLOR, H. M.: Hypokalemic alkalosis in Cushing's syndrome. Observations on the effects of potassium chloride and testosterone propionate therapy, 663†
TEILUM, G.: Estrogen-producing Sertoli cell tumors (androblastoma tubulare lipoides) of the human testis and ovary. Homologous ovarian and testicular tumors. III, 301*
THANNHAUSER, S. J.: (Letter to the Editor) Hypoglycemia in the early phase of adrenocortical carcinoma, 791*
THOMPSON, K. W.: (Letter to the Editor) Ethinyl estradiol, 574
THOMPSON, P. K., *see* THOMPSON, W. O., 300
THOMPSON, V. T., *see* MARGEN, S., 662†
——, *see* KINSELL, L. W., 671†
THOMPSON, W. O.; THOMPSON, P. K., and MANDERNACH, D. M.: Further observations on thiouracil and related substances in the treatment of toxic goiter, 300
THORN, G. W.; FORSHAM, P. H.; PRUNTY, F. T. G., and HILLS, A. G.: A test for adrenal cortical insufficiency, 109
——, *see* BENNETT, L. L., 675†
——, *see* FORSHAM, P. H., 660†
——, *see* REISS, R. S., 659†
——, *see* ROCHE, M., 662†
TILLOTSON, K. J., *see* ALTSCHULE, M. D., 440*, 548*
TIPTON, S. R. and COLVIN, F. M.: The effects of vitamin B, thyroid, and adrenal alterations on the amino acid oxidase activity of rat liver and kidney, 684†
TOBIAN, L., JR.: Cortical steroid excretion in edema of pregnancy, pre-eclampsia, and essential hypertension, 319*
—— and JOSEPH, H.: Adrenal cortex activity in essential hypertension, 677†
TOWERY, B. T., *see* WILLIAMS, R. H., 801*
TRABUCCO, A., *see* REFORZO-MEMBRIVES, J., 1333*
TRUNNELL, J. B.; MARINELLI, L. D.; DUFFY, B.J.; HILL, R.; PEACOCK, W., and RAWSON, R. W.: Treatment of metastatic thyroid cancer with radioactive iodine: credits and debits, 1138*
TUCKER, H. ST. G., JR., *see* ALEXANDER, S. B., 862*
TURNER, H. H., *see* BELLER, C., 666†
TURNER, L., *see* WOLFSON, W. Q., 497*
TUYNMAN, P. E. and WILHELM, S. K.: Potassium deficiency associated with diabetic acidosis, 397
TWOMBLY, G. H.; MCCLINTOCK, L., and ENGELMAN, M.: Tissue localization and excretion routes of radioactive dibromestrone, 112
TYLER, E. T.; PAYNE, S., and KIRSCH, H.: Pregnenolone in male infertility, 480
TYLER, F. H., *see* SAYERS, G., 593*

ULLMANN, T. D. and SCHORR, S.: Renal dwarfism with hyperparathyroidism in a case of congenital malformation of the kidneys, 401

VAN BRUGGEN, J. T.: A comparison of methods used for the hydrolysis of conjugated urinary estrogens, 480
VARGAS, L. and KOREF, O.: Retarded absorption of pellets of protamine-zinc insulin, 818*
VENNING, E. H.; RIPSTEIN, M. P., and KAZMIN, V. E.: Urinary corticoids, 659†
——, *see* WAUGH, D., 486*
VIÉGAS, A. PINTO: Hemosedimentation test in obesity, 683†
VILANOVA, X. and CAÑADELL, J. M.: Myxedema circumscriptum thyrotoxicum. Report of two cases and remarks on its pathogenesis and treatment, 883*
VILLAVERDE, M.: The use of bismuth salts in the treatment of sporadic goiters, 462*
——: Sex hormones and staphylococcus infections, 680†
VERZAR, F. and WENNER, V.: The influence *in vitro* of desoxycorticosterone on glycogen formation in muscle, 397
VOGEL, M.; MCGAVACK, T. H., and MELLOW, J.: Effects of various estrogenic preparations on the vaginal mucosa, 480

VOGEL, W. C., *see* CONN, J. W., 656†
VRIES, A. DE and ALEXANDER, B.: Studies on amino acid metabolism. II. Blood glycine and total amino acids in various pathological conditions, with observations on the effects of intravenously administered glycine, 398

WACHMAN, J., *see* MIRSKY, I. A., 395
WALSH, G. C.; HOFFMAN, M. M.; MCALPINE, H. T., and MASON, E. H.: The metabolism of glucose and galactose when administered simultaneously to man, 670†
WARD, R.: When is malignant goiter malignant?, 1031*
WATERHOUSE, C. and KEUTMANN, E. H.: Kidney function in adrenal insufficiency, 109
WATSON, B. A.: Porphyria stimulating anorexia nervosa, 683†
WAUGH, D.; VENNING, E. H., and MCEACHERN, D.: Sympathicotropic (Leydig) cell tumor of the ovary with virilism. Report of a case, 486*
WEED, J. C., *see* SEGALOFF, A., 1273*
WEISSBERG, J.; MCGAVACK, T. H.; SHEARMAN, A. M., and DREKTER, I. J.: Behavior of electrolytes during treatment of diabetic keto-acidosis, 673†
WEISSBERG, J.; MCGAVACK, T. H.; SHEARMAN, A. M., and DREKTER, L. J.: Electrolyte balance in uncontrolled and controlled diabetic ketosis and acidosis, 1259*
WENNER, V., *see* VERZAR, F., 397
WERNER, S. C.; GOODWIN, L. D., and QUIMBY, E. H.: The tracer technique with radioiodine I^{131} as a potential substitute for the basal metabolic rate determination in routine clinical practice, 664†
——; QUIMBY, E. H., and SCHMIDT, C.: The use of tracer doses of radioactive iodine, I^{131}, in the study of normal and disordered thyroid function in man, 342*
WEST, C. D. and SAMUELS, L. T.: The distribution and metabolism of circulating testosterone, 665†
WEST, R. M., *see* GREENBLATT, R. B., 668†
WHEELER, M. L., *see* FORBES, A. P., 680†
WHITESELL, F. B., JR. and BLACK, B. M.: A statistical study of the clinical significance of lymphocytic and fibrocytic replacements in the hyperplastic thyroid gland, 1202*
WILHELM, S. K., *see* TUYNMAN, P. E., 397
WILKERSON, H. L. C. and HEFTMANN, E.: Screening method for blood glucose, 397
WILLIAMS, M. M. D., *see* ALBERT, A., 1392*
WILLIAMS, R. H.: An evaluation of newer methods of treatment of thyrotoxicosis, 300
—— and KAY, G. A.: Further studies on the correlation of chemical structure and antithyroid effect, 107
——; TOWERY, B. T.; ROGERS, W. F., JR.; TAGNON, R., and JAFFE, H.: The antithyroid action of 5-iodothiouracil, 6-methyl-5-iodothiouracil, thiocytosine and (Ca) 4-n-propyl-6-oxypyrimidyl-2-mercaptoacetic acid, 801*
WILSON, D. L.: Recipient of the 1949 Schering fellowship of the Association for the Study of Internal Secretions, 686
WINSAUER, H. J. and MANNING, J. C., Jr.: A masculinizing tumor of the ovary in a postmenopausal woman, 774*
WOLFSON, W. Q.; GUTERMAN, H. S.; LEVINE, R.; COHN, C.; HUNT, H. D., and ROSENBERG, E. F., with the technical assistance of KADOTA, K. and TURNER, L.: An endocrine finding apparently characteristic of gout. Very low urinary 17-ketosteroid excretion with clinically normal androgenic function, 497*
——; HUNT, H. D.; LEVINE, R.; GUTERMAN, H. S.; COHN, C.; ROSENBERG, E. F.; HUDDLESTUN, B., and KADOTA, K.: The transport and excretion of uric acid in man. V. A sex difference in urate metabolism: with a note on clinical and laboratory findings in gouty women, 749*
——; KREVSKY, D.; LEVINE, R.; KADOTA, K., and COHN, C.: Endocrine factors in gout: the significance of differences in childhood and adult urate metabliosm, 666†
WYATT, J.: Testosterone propionate in inoperable carcinoma, 401

ZIMMERMAN, B. and DONOVAN, T. J.: Hyperglycemic effect of insulin, 398
ZONDEK, B. and BRZEZINSKI, A.: Inactivation of estrogenic hormone by women with vitamin B deficiency, 402
——; SULMAN, F., and BLACK, R.: Hormonal test for fetal death in undisturbed pregnancy, 402

SUBJECT INDEX

* Original article.

† Abstract of paper presented at the Thirty-first Annual Meeting of the Association for the Study of Internal Secretions.

Other items are abstracts of articles which appeared in current medical journals and miscellaneous entries.

ABNORMALITIES: *see* Congenital anomalies; and under various endocrine glands

ABORTION: *see* Pregnancy

ABSORPTION: *see also* Administration; and under various glandular preparations

—— retarded; of protamine-zinc insulin pellets, in normal and diabetic rabbits, 818*

ABSTRACTS

—— of current endocrine literature, 106, 297, 394, 478

—— of papers presented at Thirty-first Annual Meeting of the Association, Atlantic City, 651†

ACETIC ACID, in genesis of diabetic acidosis, 1238*

ACIDOSIS: *see* Diabetes mellitus

ACROMEGALY: *see* Pituitary disorders

ADDISON'S DISEASE: *see also* Adrenals, disorders; Steroids

—— and diabetes mellitus (autopsies), 245*, 403*

—— blood in, *see* Blood; Electrolytes

—— carbohydrate metabolism in, *see* Carbohydrate metabolism

—— development of diabetes mellitus in (autopsy), 36*

—— electrolyte metabolism in, *see* Electrolytes

—— eosinophiles in: *see* Blood, cells

—— loss of axillary and pubic hair in, in woman with regular menstration, 555*

—— myogram in, 401

—— pregnancy in; hormone and electrolyte metabolism, 514*

—— radioiodine uptake of thyroid in, 342*, 659†, 660†

—— urine in; *see* Adrenals, preparations and compounds; Steroids

THERAPY: *see also* Adrenals, preparations

—— effect of adrenal compounds on thyroid uptake of radioiodine in, 659†, 660†

—— effect of synthetic Compound E acetate on blood ketone bodies and glucose in, 675†

—— response to single injection of ACTH in, 661†

—— with Compound E (pellets), 660†

ADDISON'S DISEASE (cont.)

THERAPY (cont.)

—— with DOCA, in Addison's disease and diabetes, 36*, 245*, 403*

—— with intraoral administration of desoxycorticosterone tablets, 1324*

—— with sublingual DOCA for as long as seven years, 1324*

—— with testosterone and DOCA, 403*

ADDRESS, on the subject of Henry S. Plummer, 967*

ADMINISTRATION: *see* also substance involved

METHODS

—— buccal tablets *vs.* other methods; for estrogens, 382*

—— comparison of DOCA in oil solution and in pellets diluted with cholesterol, in rats, 677†

—— comparison of effects of Compound E by intramuscular injection or pellet implantation, 660†

—— comparison of; for estrogens, 725*, 480

—— comparison of; for progesterone, 736*

—— comparison of insulins, for successful implantation, 818*

—— intravenous administration of sex and other hormones; comparisons, 1406*, 111

—— of administration of chorionic gonadotropin; effect on excretion, 268*

—— oral *vs.* intramuscular; for ethinyl estradiol; comparison of potencies, 573*

—— oral *vs.* intravenous; for radioactive racemic thyroxine in myxedema, 1406*

—— pellet implantation; *see* substances involved, under Adrenals; Androgens; Estrogens; Insulin; Progesterone

—— tablets, for oral administration of DOCA; comparison with intramuscular route, 1324*

ADRENALS: *see also* Addison's disease; and Cushing's syndrome

—— adrenal-like masculinizing tumor of ovary, 774*

—— adrenocortical function in patients

ADRENALS (cont.)
with tumors at or near the pituitary, 1292*
—— cortical activity in essential hypertension, 677†
—— cortical adequacy, indicated by level of eosinophiles, following major surgery, 662†
—— cortical function in childhood hermaphrodism ,and in precocious puberty, 674†
—— cortical function; relation to gout, 497*
—— in Addison's disease associated with diabetes mellitus (autopsies), 36*, 245*, 403*
—— possible role of, in idiopathic hirsutism, 795*
—— width of cortex in lymphatic leukemia, lymphosarcoma and hyperthyroidism, 158*
DISORDERS
—— Addison's disease, *see* Addison's disease
—— adrenal cortical insufficiency; a test for; and kidney function in, 109
—— adrenogenital syndrome, urate metabolism in; effect of stilbestrol and of surgery, 749*
—— alarm reaction and diseases of adaption; relation to nephrosclerosis and hypertension, 479
—— Cushing's syndrome, *see* Cushing's syndrome
—— of medulla, *see* Adrenal disorders, tumors, (pheochromocytoma)
—— precocious puberty, *see* Puberty, precocious
—— virilism, *see* Virilism
Tumors
—— cortical carcinoma; hypoglycemia in, 791*
—— cortical carcinoma in male with excess urinary gonadotropin (autopsy), 451*
—— cortical tumors *vs.* hyperplasia, 680†
—— corticoadrenal; with hypoglycemic syndrome, goiter, gynecomastia and hepatosplenomegaly, 255*
—— pheochromocytoma; effect of antagonist to epinephrine in, 651†
—— pheochromocytoma; nor-epinephrine in, 652†
—— pheochromocytoma; tetraethylammonium bromide in diagnostic test for, 478
—— pheochromocythoma, with hypothalamic manifestations and

ADRENALS (cont.)
DISORDERS (cont.)
Tumors (cont.)
excessive hypermetabolism, 782*
—— pheochromocytomas, 108
PHYSIOLOGY
—— ACTH: *see* Pituitary, preparations
—— adrenalectomized rats, treated; role of emotional stress in survival of, 678†
—— adrenalectomy; effect on amino acid oxidase in the rat, 684†
—— adrenalectomy; response of white blood cells to, in the rat, 678†
—— adrenals of malnourished rats; effect of nonspecific stress on, 656†
—— *adrenocorticotropic hormone of the pituitary (ACTH)*: *see* Pituitary, preparations
—— ascorbic acid of chick adrenal; inability of ACTH or epinephrine to deplete, 655†
—— cortex; possible involvement in mobilization of fat to liver, in the mouse, 657†
—— cortex; possible role in sex difference in urate metabolism, 749*
—— cortex; role in development of axillary and pubic hair, 555*
—— cortical activity in heat and cold stress; effect of ACTH on, 529*
—— cortical function; evaluation of, with single injection of ACTH, 661†
—— cortical response, as indicated by changes in circulating eosinophiles, 714*
—— function, in infants, 646*
—— secretory activity following ACTH intravenously in man, 593*
PREPARATIONS AND COMPOUNDS
—— cortical extract; stimulator of nitrogen metabolism during insulin hypoglycemia in the rat, 657†
—— cortical hormone, in blood of dogs, 658†
—— cortical hormones in regulation of ACTH activity, 656†
—— cortical steroid excretion in edema of pregnancy, pre-eclampsia and essential hypertension, 319*, 1436*
—— cortical steroid excretion in infants, 646*
—— cortical steroids; cholesterol precursor and source material, 656†
—— corticoids, urinary; comparison of chemical and biologic assay, 659†
—— corticosteroids, urinary, in diabetic acidosis, 672†
—— cortin and 17-ketosteroid excretion following sodium deprivation and

ADRENALS (cont.)
PREPARATIONS AND COMPOUNDS (cont.)
administration of DOCA, 661†
—— cortin-like substances in testicular chorioma, 615*
—— 17-hydroxycorticosterone (Compound F); isolation from urine in Cushing's syndrome associated with severe diabetes mellitus, 478
—— 11-oxysteroids and Compound F in Cushing's syndrome with "steroid diabetes," 672†
—— 11-oxysteroids; increased production of, after electroconvulsive therapy for mental disease, 548*
—— 11-oxysteroids; in remissions of mental disease following shock therapy, 440*
—— 11-oxysteroids, urinary; in adrenal cortical carcinoma, 791*
—— steroids; renal function in normal and adrenalectomized rats following, 658†
—— urinary corticoids in pregnant woman with Addison's disease, 514*
—— urinary glycogenic corticoids in virilizing Leydig cell tumor of ovary, 486*
Compound E
—— acetate and Lipoadrenal Cortex; effect on thyroid uptake of radioiodine, in Addison's disease and in panhypopituitarism, 659†, 660†
—— acetate (pellets), in the treatment of Addison's disease; physiology and biochemistry, 660†
Desoxycorticosterone (acetate)
—— and ACTH; effect on exophthalmos and fat mobilization in guinea pigs, 937*
—— and testosterone pellets in treatment of Addison's disease with diabetes; effects of overdosage, 403*
—— comparison of administration in oil solution and in pellets, in adrenalectomized rats, 677†
—— effect in hypokalemia, 691*
—— effect of single dose on electrolyte metabolism, in normal man, 660†
—— effect on adreno-demedullated rat, 656†
—— effect on carbohydrate metabolism in case of Addison's disease and diabetes mellitus, 245*
—— hypertensive effects of; potentiation by sodium salts, 109
—— in tablet form, in oral therapy of

ADRENALS (cont.)
PREPARATIONS AND COMPOUNDS (cont.)
Desoxycorticosterone (acetate) (cont.)
Addison's disease, 1324*
—— in vitro; influence on glycogen formation in muscle, 397
—— (pellets) effect on relation of fluid intake to blood pressure, in rats, 478
—— (subcutaneously and in pellets) in treatment of Addison's disease followed by diabetes mellitus, 36*
Epinephrine
—— and radioiodine; effect on thyroid uptake of iodine and on eosinophiles, in Addison's disease and in panhypopituitarism, 659†
—— content of pheochromocytoma, 782*
—— effect on adrenal cortical hormone in blood of dogs, 658†
—— inability of, to deplete ascorbic acid of chick adrenal, 655†
—— nor-epinephrine in adrenal medulla, 652†
—— piperidomethyl-benzodioxane (933-F), an antagonist of, 651†
—— response of eosinophiles to, following major surgery, 662†
AFRICAN Negro women; causes of sterility in, 111
AGE: *see also* Infants; Children; and under various endocrine disorders
—— effect on urinary excretion of 17-ketosteroids, 426*
—— in relation to Hashimoto's chronic thyroiditis, 980*
—— in relation to type of tissue replacement in hyperplastic thyroid gland, 1202*
—— relation to incidence of nonencapsulated sclerosing thyroid tumors, 1216*
—— senescence; thyroid collection of I^{131}, and serum PBI in, 430*
AGRANULOCYTOSIS: *see* Blood, cells; Thiouracil
ALKALOSIS: *see also* Electrolytes
—— hypokalemic, in Cushing's syndrome; effect of KCl and testosterone therapy, 663†
—— potassium deficiency in; a mechanism of, 676†
ALLERGY: *see also* Antihormones; and specific substance involved
—— hypersensitivity to pitressin, 650*
—— to insulin, generalized, 895*
—— to steroid hormones, 681†
ALLOXAN: *see* Diabetes mellitus
ALPHA-TOCOPHEROL: *see* Vitamins, E
AMENORRHEA: *see* Menstruation

AMERICAN CANCER SOCIETY: British American exchange fellowships in cancer research, 575
AMERICAN COLLEGE OF PHYSICIANS: fellowships for Latin-American physicians, 689
AMERICAN DIABETES ASSOCIATION
ANNUAL MEETING
—— for 1949, Atlantic City, June 1949:
— announcements of, 211, 296, 393, 472
— program of section in joint meeting with Association for the Study of Internal Secretions, 389, 470
— abstracts of papers on program, 669†
POSTGRADUATE ASSEMBLY in Endocrinology and Diabetes: (with the Association for the Study of Internal Secretions), April 1950, Miami Beach, 1242, 1438
AMERICAN GOITER ASSOCIATION
ANNUAL MEETINGS
—— Madison, Wisconsin, May 1949:
— announcements of, 105, 212, 293, 391
— program of, 293, 391
—— Houston, Texas, March 1950:
— announcements of, 794, 912, 1068, 1244, 1442
PRESIDENTIAL ADDRESS
—— for 1949, 967*
—— for 1948 (belated), 974*
VAN METER PRIZE AWARD
—— essays
— winning 1949 Van Meter Prize, 913*
— first honorable mention, 941*
— second honorable mention, 955*
—— for 1949,
— announcement of, 105
— recipient of, and honorable mentions, 687
—— for 1950
— announcement of, 912, 1068, 1244, 1442
AMINO ACID: *see* Nitrogen
AMPHETAMINE, with diet, in the prolonged medical treatment of obesity; toxicity, 275*
ANALOGUES
—— of thiouracil; antithyroid action of, 801*
—— of thyroxine, physiologic activity of, 1099*, 1107*
—— of thyroxine; thyroxine-like and antithyroxine activity of, 955*
ANDROBLASTOMA: *see* Ovary, tumors; Testis
ANDROGENS: *see also* Gonadotropins; Hermaphrodism; Sex; Steroids; Testis
—— abnormal; relation to genetic hyperuricemia, and to gout, 749*, 666†
—— in urine; *see* Steroids
—— normal activity of, associated with low urinary 17-ketosteroids, in gout, 497*
—— stimulation of, *see* Gonadotropins
—— testosterone, circulating; distribution and metabolism of, 665†
—— testosterone; synthesis from androstenedione-3,17 by testis tissue in vitro, 674†
EFFECTS AND THERAPY
—— effect on urinary gonadotropins in castrated males, 654†
—— influence on rate of radioiodide uptake, 430*
—— intravenously injected sex and other hormones; effect on blood flow in human endometrium, 111
—— toxemia (hypercalcemic syndrome) from, in patients with osteolytic metastases, 1*
Testosterone
—— effect of, on urinary 17-ketosteroids in gout, 497*
—— effect on blood ketones and other products of fat and protein catabolism, in diabetes, 671†
—— in Cushing's syndrome, 663†
—— in staphylococcus infections, 680†
—— inability of (i.m. and pellets), to reduce urinary gonadotropin in eunuchoid men, 113*
—— methyltestosterone; spermatogenesis following administration of (linguets and ointment); coincidental neoplasm, 163*
—— new esters of; androgenic activity compared to testosterone propionate, 679†
—— pellet implantation and oral route, in therapy of Addison's disease with diabetes, 403*
—— pellets, in treatment of woman with acromegaly, 126*
—— propionate; effect in case of pituitary tumor observed nine years, 372*
—— propionate; effect of crude folic acid antagonists on seminal vesicle response to, in mice, 674†
—— propionate; effects of small doses on spermatogenesis, 666†
—— propionate; effects on blood and bone marrow of women with inoperable breast cancer, 666†

ANDROGENS (cont.)
EFFECTS AND THERAPY (cont.)
Testosterone (cont.)
—— propionate; effect on bone metastases in breast cancer, 1314*
—— propionate; effect on growth of axillary hair, measured quantitatively, 665†
—— propionate; effect on hypokalemic alkalosis in Cushing's syndrome, 663†
—— proprionate; effect on penis of castrated, hypophysectomized rat, 679†
—— propionate, in inoperable carcinoma, 401
—— propionate; local action of, on development of axillary hair in the male, 1434*
—— relation to sex difference in urate metabolism, 749*
—— spermatogenesis in eunuchoidism, following therapy with (oral, i.m. and pellets), 1245*
ANEMIA: *see* Blood, cells
ANESTHESIA, with pentothal; basal metabolism testing under, 1190*
ANGINA PECTORIS: *see* Heart
ANNOUNCEMENTS: *see* Association; and American Cancer Society; American College of Physicians; American Diabetes Association; American Goiter Association; Jefferson Medical College; Kellogg Foundation; Laurentian Hormone Conference; National Research Council; University of California Medical School; University of Georgia School of Medicine
ANNUAL MEETINGS: *see* Announcements
ANOMALIES: *see* Congenital anomalies; and abnormalities under various endocrine glands
ANOREXIA NERVOSA:
—— radioiodine uptake of thyroid in, 342*
—— simulated by porphyria, 683†
ANTIBODIES, uninfluenced by ACTH intravenously, 593*
ANTIHISTAMINIC DRUGS: *see also* Allergy
—— in treatment of allergy to insulin, 895*
—— in treatment of hypersensitivity to pitressin, 650*
ANTIHORMONES: *see also* Antibodies; Antithyroid drugs
—— antidiuretic hormone *see also* Pituitary, preparations
—— antidiuretic nonchloruretic substance extracted from urine, 652†
ANTIHORMONES (cont.)
—— antigonadotropin formation in man, 654†
—— antihormone formation complicating treatment of infertile men, 213*
—— antihormone formation during chorionic gonadotropin therapy, 384*
—— antihormones; properties of, 213*
—— antihormones to pituitary gonadotropin; effect on sperm, testis and urinary gonadotropins, 355*
—— anti-insulin: *see* Insulin
ANTITHYROID DRUGS: *see also* Iodine; Thiouracil; Thyroid
—— action of, studied by radioiodine, 171*
—— antithyroid effect of; further studies on the correlation of chemical structure with, 107
—— in preoperative treatment of hyperthyroidism; favorable and unfavorable effects, 999*
—— tetrabrom- and tetrachlorthyronine, 1099*, 1107*
—— thiocyanate goiter with myxedema, 446*
—— thiooxazolidone and the pathogenesis of simple goiter, 1069*
—— thiouracil and compounds, *see* Thiouracil
—— thyronine compounds; antithyroxine activity of, 955*
ANTIVITAMINS: *see also* Vitamins
—— antagonists to crude folic acid; effect on response to testosterone in mice, 674†
AORTA: *see* Vascular system
ARRHENOBLASTOMA: *see* Ovary, tumors
ARTERIES: *see* Vascular system
ARTHRITIS: *see also* Gout
—— effect of roentgenotherapy on 17-ketosteroid excretion in ankylosing spondylarthritis, 79*
—— rheumatoid, and spondylitis in males; urinary 17-ketosteroids in, 497*
ASCHHEIM-ZONDEK TEST: *see also* Gonadotropins; Pregnancy; Tests
—— in precocious puberty, associated with ovarian dysgerminoma, 1349*
ASCORBIC ACID: *see* Adrenals; Methods; Vitamins
ASSOCIATION FOR THE STUDY OF INTERNAL SECRETIONS
ABSTRACTS
—— of current endocrine literature, 106, 297, 394, 478
—— of papers presented at Thirty-first Annual Meeting, 651†

ASSOCIATION FOR THE STUDY OF INTERNAL SECRETIONS (cont.)
ANNUAL MEETINGS
—— Thirty-first, Atlantic City, New Jersey, June 1949:
— announcements of, 103, 211, 292, 386
— program of (last session joint, with American Diabetes Association), 386, 467
— abstracts of papers on program, 651†
—— Thirty-second, San Francisco, California, June 1950:
— announcements of, 792, 909, 1065, 1241, 1439
AWARDS AND FELLOWSHIPS
(Ciba award; Squibb award; Ayerst, McKenna & Harrison fellowship; Schering fellowship):
—— for 1949:
— announcement of, 103
— recipients of, 685
—— for 1950:
— announcements of, 793, 910, 1066, 1242, 1440
EDITORIALS, 1238, 1429
FELLOWSHIPS: *see* Association, awards
LETTERS TO THE EDITOR, 382*, 384*, 385*, 573*, 574*, 650*, 791*, 907*, 1432*, 1434*, 1436*
OFFICERS; COUNCIL, COMMITTEE, AND EDITORIAL BOARD MEMBERS
—— for *1948–49:* *see* general information page, front ad section, January–June issues
—— for *1949–50:* *see* Ibid., July–December issues
POSTGRADUATE ASSEMBLIES IN ENDOCRINOLOGY
—— February 1949, Oklahoma City: announcement, and preliminary program of, 101
—— April 1950, Miami Beach (with American Diabetes Association): announcements of, 1240, 1438
ROSTER, new; request for biographical data for, 792, 909, 1065
AURICULAR FIBRILLATION: *see* Heart
AUTHOR INDEX to Volume 9 (1949), 1443
AWARDS: (including Fellowships and Grants): *see* Association, awards; American Cancer Society; American College of Physicians; American Goiter Association; Jefferson Medical College; Kellogg Foundation; and National Research Council
AYERST, McKENNA & HARRISON FELLOWSHIP: *see* Association, awards
AZOOSPERMIA: *see* Testis, spermatozoa

BASAL METABOLISM: *see also* Iodine; Thiouracil; Thyroid
—— excessive hypermetabolism in pheochromocytoma with hypothalamic manifestations; effect of removal of tumor, 782*
—— in heat and cold stress in men, 529*
—— in routine clinical practice; substitution of tracer technique with I^{131} for, 664†
—— relation to protein-bound blood iodine, 1185*
—— relation to type of parenchymal replacement in hyperplastic thyroid gland, 1202*
—— testing, under pentothal anesthesia, 1190*
BENADRYL: *see* Antihistaminic drugs
BENZODIOXANE: effects in pheochromocytoma, 651†, 108
BETA RAY counting, in measurement of urinary I^{131}, 841*
BICARBONATE: *see* Carbon, dioxide
BIOGRAPHY of Henry S. Plummer, 967*
BISMUTH salts, in treatment of sporadic goiters, 462*
BLOOD: *see also* under constituent or under endocrine disorder involved
—— alpha-tocopherol in, before and during treatment, 743*
—— bicarbonate and chloride, in hypokalemia, 691*
—— citric acid, after oral glucose, in diabetes, 400
—— ketone bodies; effect of Compound E acetate (synthetic) on, in Addison's disease, 675†
—— ketones; effect of testosterone on in diabetes with thyrotoxicosis, 671†
—— lipids, in tumors at or near the pituitary, 1292*
—— lymphatic leukemia; width of adrenal cortex in, 158*
—— pepsidases; effect of ACTH on, in man, 593*
—— pressure, *see* Vascular system
—— urate metabolism, 749*
—— urea nitrogen, in hypercalcemic syndrome, 1*
—— uric acid; hereditary hyperuricemia, relation to gout, 666†
—— uric acid; idiopathic hyperuricemia, urinary 17-ketosteroids in, 497*
—— vessels, *see* Vascular system
CALCIUM
—— calcium, phosphorus, cholesterol and protein, in pseudohypoparathyroidism, 862*
—— hypercalcemia in breast cancer with bone metastases; effect of

BLOOD (cont.)
CALCIUM (cont.)
androgen therapy, 1314*
—— hypercalcemic syndrome associated with androgenic and estrogenic therapy, 1*
—— spontaneous hypocalcemia and electrocerebral dysfunction, 398
CELLS
—— anemia of hypophysectomized rats; effect of nonendocrine hemopoietic agents on, 676†
—— effect of radioiodine therapy on, 1138*
—— eosinophiles and leukocytes, during menstrual cycle and reproduction, 714*
—— eosinophiles and lymphocytes during heat, cold and exercise; effect of ACTH on, 529*
—— eosinophiles as indicator of adrenal cortical adequacy following major surgery, 662†
—— eosinophiles; decrease in, after electrically induced convulsions, and after ACTH, 440*
—— eosinophiles; effect of ACTH on, 109
—— eosinophiles; effect of Compound E on, in Addison's disease, 660†
—— eosinophiles; effect of single injection of ACTH on, in normal subjects and in those with Addison's disease and with pituitary tumor, 661†
—— eosinophiles; effect of testosterone with ACTH on, in Cushing's syndrome, 663†
—— eosinophiles; effect of withdrawal of insulin on, in diabetes, 672†
—— eosinophiles following administration of epinephrine and radioiodine, in Addison's disease and in panhypopituitarism, 659†
—— eosinophiles, in essential hypertension, 677†
—— eosinophiles, lymphocytes, and neutrophiles, following ACTH intravenously, 593*
—— granulopenia during propylthiouracil therapy, 330*
—— hemosedimentation test in obesity, 683†
—— red; effect of testosterone on, in therapy of breast cancer, 666†
—— white; response to adrenalectomy, stress and pantothenic acid, in the rat, 678†
CHOLESTEROL
—— cholesterol and arterial intima in the rat; effect of propylthiouracil and cholesterol on, 106
—— cholesterol (free and ester) in normal men, before and after ACTH, 656†
—— cholesterol, in Hashimoto's disease, 980*
—— cholesterol, in tumors at or near pituitary, 1292*
HORMONES
—— adrenal cortical hormone in, in dogs, 658†
—— antihormones, *see* Antihormones
—— free thyroxine in, 149*
—— important source of material for synthesis of cortical steroids, 656†
—— TSH and thyroxine in, 653†
IODINE: *see also* Iodine; Thiouracil; Thyroid
—— in study of labeled iodocasein in myxedema, 828*
—— nomenclature of fractions; "spurious" *vs.* hormonal iodine in, 1080*
—— precipitable; relation of serum albumin to, 107
—— protein-bound; effect of propylthiouracil on, 330*
—— protein-bound; effect of radioiodine therapy on, in Graves' disease, 29*
—— protein-bound; effect of tetrabrom- and tetrachlorthyronine on, 1099*, 1107*
—— protein-bound, following large single dose of thyroid globulin, 377*
—— protein-bound; in hyperthyroidism following radioiodine therapy of thyroid metastases, 1138*
—— protein-bound; in myxedema, following administration of labeled iodide, thyroglobulin and thyroxine, 1392*
—— protein-bound; in senescence, hypothyroidism and hypopituitarism, 430*
—— protein-bound, in thiocyanate goiter with myxedema, 446*
—— protein-bound, labeled and unlabeled, following labeled racemic thyroxine therapy in myxedema, 1406*
—— protein-bound, or serum precipitable; constancy of, in healthy adults, 768*
—— protein-bound; simplified method for determination of; clinical application, and relation to B.M.R., 1185*

BLOOD (cont.)
IODINE (cont.)
—— radioactive, in direct estimation of rate of thyroid hormone formation in man; calculation of serum iodide from, 941*
—— radioactive, in serum, urine and expired air, in treated thyroid carcinoma, 1080*
—— radioactive, in treated metastatic adenocarcinoma of the thyroid, 1379*
—— radioactive, protein-bound; in various thyroidal states, 171*
—— serum precipitable; concentrations during pregnancy, 299
—— serum-precipitable; low, in tumors at or near the pituitary, 1292*
PHOSPHORUS
—— alkaline phosphatase; relation to carbohydrate metabolism in dogs, 907*
—— in acromegaly, 126*
—— in diabetic keto-acidosis, 673†
—— in hypercalcemic syndrome, 1*
—— phosphate; decreased, in diabetic ketosis treated with insulin, 1245*
POTASSIUM
—— effects of therapy on, in Addison's disease and diabetes, 403*
—— hypokalemia, 691*
—— hypokalemic alkalosis in Cushing's syndrome; effect of KCl and testosterone on, 663†
—— hypopotassemia in diabetic keto-acidosis, 673†
—— marked decrease in, during insulin therapy of diabetic ketosis, 1245*
SUGAR: *see also* Carbohydrate; Diabetes mellitus; Insulin
—— a simple bedside method for the estimation of, 394
—— effect of Compound E acetate on, in Addison's disease, 675†
—— effect of Compound E on, in Addison's disease, 660†
—— effect of PZ-insulin implantation on, in normal and diabetic rabbits, 818*
—— glucose; screening method for, 397
—— glucose tolerance curves in osteitis deformans, 907*
—— glucose tolerance test, in decerebrate rats, 670†
—— glucose tolerance test in diabetes mellitus following Addison's disease, 36*
—— glucose tolerance test, in masculinizing tumor of ovary, 774*
—— glucose tolerance test in tumors at or near the pituitary, 1292*
—— hyperglycemia; metabolism of glucose and galactose, in study of, 670†
—— hyperglycemic effect of insulin, 398
—— hyperglycemic factor extracted from pancreas, 669†
—— hypoglycemia in diabetes mellitus with Addison's disease, 403*
—— hypoglycemia in early adrenocortical carcinoma, 791*
—— hypoglycemia in insulin shock therapy; gastric secretory response to, 394
—— hypoglycemia response to insulin in Turner's syndrome in a male, 1333*
—— hypoglycemic syndrome, with corticoadrenal tumor, 255*
—— in Addison's disease combined with diabetes mellitus, 245*
—— in diabetics with generalized allergy to insulin, 895*
—— in the management of diabetes mellitus, 395
—— insulin hypoglycemia in rat; stimulation of nitrogen metabolism during, 657†
—— relation to serum potassium and other electrolytes, during insulin therapy of diabetic ketosis, 1245*
BODY GROWTH AND WEIGHT: *see* Children; Dwarfism; Infants; Nutrition; Obesity, Pituitary, growth hormone
BODY TEMPERATURE: *see* Temperature
BONES
—— abnormal digits, associated with coarctation of aorta, hypo-ovarianism and dwarfism, 622*
—— changes in acromegaly, 126*
—— closure of epiphyses following androgen therapy in 24-year-old male with pituitary tumor, 372*
—— hypertrophic pulmonary osteoarthropathy; pituitary implications in, 297
—— in pseudohypoparathyroidism, 862*, 665†
—— in Turner's syndrome in a male, 1333*
—— marrow changes, following radioiodine therapy, 1138*
—— marrow; effect of testosterone on cells of, in therapy of breast cancer, 666†
—— metastases to, from breast cancer; effect of testosterone on, 1314*
—— metastases to, from thyroid cancer; radioiodine therapy of, 1122*, 1138*
—— metastases to, from thyroid cancer;

BONES (cont.)
study of function, with radioautography, 1153*
—— ossification of, in precocious puberty associated with ovarian dysgerminoma, 1349*
—— osteitis deformans; glucose tolerance curves in, 907*
—— osteitis deformans; insulin for relief of pain in, 385*
—— osteolytic metastases; hypercalcemic syndrome associated with sex hormone therapy in, 1*
—— radioiodine content of red marrow and of metastases, 56 hours after oral ingestion of I^{131} for thyroid cancer, 1379*
BOOKS RECEIVED, 474
BRAIN: *see also* Emotion; Mental disease; Psychoneurosis; Nervous system; Pituitary
—— decerebrate rats; carbohydrate metabolism in 670†
—— electrocerebral dysfunction and spontaneous hypocalcemia, 398
—— electroencephalogram; effect of Compound E on, in Addison's disease, 660†
—— electroencephalogram in Turner's syndrome in the male, 1333*
—— encephalogram in pheochromocytoma with hypothalamic manifestations, 782*
BREAST
—— cancer; androgenic and estrogenic therapy of; hypercalcemic syndrome associated with, 1*
—— carcinoma, inoperable; effects of testosterone on peripheral blood and on bone marrow in, 666†
—— carcinoma; metastases to bone; effect of testerone propionate on, 1314*
—— during progesterone therapy of uterine leiomyomas, 1273*
—— in 8-year-old girl with ovarian dysgerminoma, 1349*
—— lactation, cessation of; effect on hyperthyroidism, 330*
—— persistent lactation in acromegaly, 126*
—— prolactin; assay of, in breast carcinoma, chronic cystic mastitis and other endocrine disorders, 653†
GYNECOMASTIA
—— associated with corticoadrenal tumor, 255*, 791*
—— associated with feminizing androblastoma testis, 301*
—— enlargement of nipples in male dog with feminizing testicular tumor, 579*
BREAST (cont.)
GYNECOMASTIA (cont.)
—— in paraplegic males 457*
BRITISH AMERICAN EXCHANGE FELLOWSHIPS in cancer research, awarded by the American Cancer Society, 575
BROMINE
—— replacing iodine in thyroxine; effect, 1099*, 1107*
—— sodium bromide, unable to inhibit iodine-deficient goiter, in rats, 1107*
—— tetraethylammonium bromide, in diagnosis of pheochromocytoma, 478

CALCIUM METABOLISM: *see also* Blood, calcium; Bones; Electrolytes; Parathyroids
—— calcium balance in Cushing's syndrome with "steroid diabetes," 672†
—— calcium retention correlated with potassium loss, following single dose of DOCA, 660†
—— hypercalcemia in breast cancer with bone metastases; effect of androgen therapy on, 1314*
—— hypercalcemic syndrome associated with androgenic and estrogenic therapy, 1*
—— in pseudohypoparathyroidism, 862*, 665†
—— recalcification of osteolytic and decalcification of osteoplastic metastases to bone from breast cancer, during androgen therapy, 1314*
—— spontaneous hypocalcemia and electrocerebral dysfunction, 398
CANCER: *see also* under various organs involved; and under Tumors
—— destruction of metastasis of thyroid cancer, treated with radioiodine, 1122*, 1138*
—— incidence of, in endocrine case histories, 682†
CARBOHYDRATE METABOLISM: *see also* Adrenals; Blood, sugar; Diabetes mellitus; Insulin
—— citric acid response to oral glucose; abnormalities in diabetes, 400
—— dextrose tolerance test: *see* Blood, sugar
—— effect of implanted PZ insulin on, in normal and diabetic rabbits, 818*
—— following ACTH intravenously, 593*
—— glucose and galactose administered simultaneously; metabolism of, in man, 670†
—— glucose tolerance test: *see* Blood, sugar
—— glycine and total amino acids in various pathologic conditions, 398

CARBOHYDRATE METABOLISM (cont.)
—— glycogen formation in muscle; influence *in vitro* of desoxycorticosterone on, 397
—— glycogen in vaginal smear; limitations as an index of estrogen activity, 1359*
—— hyperglycemia: *see* Blood, sugar
—— hypoglycemia: *see* Blood, sugar
—— in decerebrate rats, 670†
—— in diabetes mellitus and Addison's disease, 245*, 403*
—— in diabetics with generalized allergy to insulin, 895*
—— in masculinizing tumor of ovary, 774*
—— in pregnant woman with Addison's disease, 514*
—— insulin tolerance test: *see* Insulin
—— relation of serum alkaline phosphatase to, in dogs, 907*
—— studies in, by means of radioactive carbon, 1238*
—— sugar tolerance test, *see* Blood, sugar
—— urinary glycogenic corticoids and glucose tolerance curve, in virilizing Leydig cell tumor of ovary, 486*
CARBON
—— dioxide, in serum; high, in hypokalemia, 691*
—— dioxide, of plasma, and CO_2/Cl ratio, in essential hypertension, 677†
—— radioactive, in study of diabetes, 1238*
CARCINOMA: *see* Cancer
CASTRATION: *see* Climacteric; Menstruation; Ovary; Testis
CELLS: *see* Blood, cells; Tissues; and organ involved
CHEMISTRY: *see* Methods; Tests; and under various chemical compounds and gland preparations
CHILDREN: *see also* Dwarfism; Growth; Infants; Puberty, precocious; and under various endocrine glands
—— somatosexual aberrations in; role of adrenal cortex, 674†
—— urate metabolism in, 749*, 666†
—— urinary excretion of 17-ketosteroids in, 426*
—— young fraternal dissimilar twins; hyperthyroidism in, 298
CHLORIDE: *see also* Addison's disease; Electrolytes; Sodium; and under various endocrine glands
—— and sodium excretion; relative independence of, 368*
—— CO_2/Cl ratio of plasma in essential hypertension, 677†
—— in serum; increased in diabetic ketoacidosis, 1245*
CHLORIDE (cont.)
—— in serum; low, in hypokalemia, 691*
—— metabolism following ACTH intravenously, in man, 593*
—— metabolism following single dose of DOCA, 660†
—— nonchloruretic, antidiuretic substance extracted from urine, 652†
—— renal excretion of, in Cushing's syndrome, 13*
CHLORINE, replacing iodine in thyroxine; effect, 1099*, 1107*
CHOLESTEROL
—— effect of propylthiouracil and of feeding cholesterol on serum cholesterol and arterial intima of rat, 106
—— esterified; the immediate precursor of adrenal cortical steroids; effect of ACTH on serum cholesterol fractions, 656†
—— in blood: *see* Blood, cholesterol
—— in the dilution of DOCA pellets, 677†
—— with insulin: effect on absorption, 818*
CHORIONIC GONADOTROPIN: *see* Gonadotropins; Pregnancy, diagnosis
CHROMOPHOBE ADENOMA: *see* Pituitary, disorders
CIBA AWARD: *see* Association, awards
CINNAMIC ACID, phenyl-diiodohydroxy-; in study of organic *vs.* inorganic iodine, 1080*
CIRCULATION: *see* Blood; and Vascular system
CITRIC ACID
—— citric acid response to oral glucose; abnormalities in diabetes, 400
—— sodium citrate in treatment of hypercalcemic syndrome, 11*
CLIMACTERIC: *see also* Estrogens; Menstruation; Ovary
—— buccal tablets of estrogen in therapy of, 382*
—— changes in amounts of LH and FSH in urine of; effects of estrogen on, 668†
—— effect of estrogenic therapy on urethral smear in, 1362*
—— effect of synthetic Vitamin E in, 89*
—— effects of various estrogens on vaginal mucosa in, 480
—— postmenopausal woman; masculinizing ovarian tumor in, 774*
—— relation to tophaceous and pretophaceous gout, 749*
—— vaginal smears in; used in the assay of estrogens, 725*
COARCTATION OF AORTA: *see* Vascular system
COLD
—— hormonal alterations in men exposed

COLD (cont.)
to; effect of ACTH on, 529*
COLORIMETRIC METHODS: *see* Methods
COMMITTEES of the Association: *see* Association
COMPOUND E: *see* Adrenals, preparations and compounds
COMPOUND F: see Adrenals, preparations and compounds
CONFESSIONS of an elderly thyroidologist (belated 1948 presidential address of American Goiter Association), 974*
CONGENITAL ANOMALIES: *see also* under various endocrine glands
—— coarctation of aorta associated with abnormal digits, hypo-ovarianism and dwarfism, 622*
—— malformations, associated with rudimentary testes and dwarfism, 1333*
—— malformations of the kidney, with renal dwarfism, 401
CONVULSIONS, electrically induced in mental disease
—— changes in urinary uric acid-creatinine ratio after, 548*
—— decrease in eosinophiles after, 440*
CORPUS LUTEUM: *see* Ovary; Progesterone
CORTICOIDS; CORTICOSTEROIDS; CORTIN; CORTATE: *see* Adrenals, preparations and compounds; Steroids
COUNCIL of the Association: *see* Association
COURSES
—— in endocrinology, postgraduate; *see* Association, postgraduate assemblies; and University of California
—— in medical illustration, *see* University of Georgia
CRANIOPHARYNGIOMA: *see* Pituitary, disorders
CREATININE: *see also* Nitrogen; Protein; and under various endocrine glands
—— uric acid ratio, urinary:
— following ACTH intravenously, 593*
— following shock therapy, 548*
— in men exposed to heat and cold, 529*
CRETINISM: *see* Thyroid, disorders, hypothyroidism
CRYPTORCHISM: *see* Testis
CUBITUS VALGUS, associated with rudimentary testes and dwarfism, 1333*
CUSHING'S SYNDROME: *see also* Adrenal, disorders; Pituitary, disorders
—— adrenal tumor *vs.* hyperplasia; comparison of urinary 17-ketosteroids in, 680†
—— and severe diabetes mellitus; isolation of 17-hydroxycorticosterone from urine in, 478
CUSHING'S SYNDROME (cont.)
—— changes in urinary steroids in, produced by sodium deprivation and by DOCA, 661†
—— hypokalemic alkalosis in; effect of therapy, 663†
—— mechanism of action of testosterone in, 663†
—— plasma urate in; effect of removal of tumor, 749*
—— protein metabolic abnormality in, studied by S^{35}-labeled-methionine, 662†
—— renal excretion of salt and water in, 13*
—— "steroid diabetes" in; compound F in urine; N, P and Ca balances; necropsy, 672†
—— urinary prolactin in, 653†

DEBILITATING DISEASE
—— chronically ill and undernourished patients; potassium in, 691*
—— insulin content of pancreas reduced in, 481*
DELPHIAN lymph node: in Hashimoto's thyroiditis, and as an early sign of thyroid cancer, 1012*
DESOXYCORTICOSTERONE: *see* Adrenals, preparations and compounds
DEXTROSE: *see* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus
DIABETES INSIPIDUS: *see* Pituitary, disorders
DIABETES MELLITUS: *see also* Blood, sugar; Carbohydrate metabolism; Insulin; Pancreas
—— abnormalities in citric acid response to oral glucose in, 400
—— acidosis; potassium deficiency associated with, 397
—— acidosis; potassium in the treatment of, 691*
—— acidosis; urinary excretion of corticosteroids in, 672†
—— alloxan diabetes in rabbits; retarded absorption of PZI pellets in, 818*
—— blood pressure and obesity in, 48*
—— blood sugar: *see* Blood, sugar
—— deaths from, in the District of Columbia during 42 years, 396
—— dextrose tolerance test: *see* Blood, sugar
—— electrolyte balance, in controlled and uncontrolled ketosis and acidosis in, 1259*
—— generalized allergy to insulin in, 895*
—— glucose tolerance test: *see* Blood, sugar
—— hypopotassemia during treatment of ketosis with insulin, 1245*

DIABETES MELLITUS (cont.)
—— in a Scottish diabetic clinic; etiology, hereditary factors, death rate, 48*
—— in infants under one year of age, 396
—— keto-acidosis; behavior of electrolytes during treatment, 673†
—— management of; present day methods, 395
—— metabolism of glucose and galactose in, 670†
—— more light on the biochemistry of, 1238*
—— sugar tolerance test: *see* Blood, sugar
—— urinary excretion of insulin in, 395
—— urinary 17-ketosteroid excretion in, 426*
COMPLICATIONS AND SEQUELAE
—— and acromegaly, 126*
—— and Addison's disease (autopsies), 245*, 403*
—— degenerative vascular lesions in, 394
—— development of, in Addison's disease (autopsy), 36*
—— family history of, in osteitis deformans, 385*
—— in a Scottish diabetic clinic, 48*
—— in pregnancy, 395
—— "steroid diabetes" with Cushing's syndrome; Na, P and Ca balances; necropsy, 672†
—— with thyrotoxicosis; blood ketones and other products of fat and protein catabolism in; effect of testosterone on, 671†
DIBROMESTRONE: *see* Estrogens
DIENESTROL: *see* Estrogens
DIET: *see also* Anorexia nervosa; Fat; Nutrition; Obesity; Vitamins
—— dietary factors (thiooxazolidone) in pathogenesis of simple goiter, 1069*
—— in the prolonged medical treatment of obesity, 275*
—— protein of; effect on ability of liver to inactivate estradiol in the rat, 675†
DIETHYLSTILBESTROL: *see* Estrogens
DIGITS: *see* Bones
DIHYDROTACHYSTEROL, in treatment of pseudohypoparathyroidism, 862*
DIIODOTHYRONINE: *see* Thyronine
DIODOTYROSINE, radioactive; used in study of mutual interconversion of organic and inorganic iodine, 1080*
DWARFISM: *see also* Growth; Pituitary
—— associated with coarctation of aorta, abnormal digits, and ovarian insufficiency, 622*
—— associated with rudimentary testes and congenital malformations, 1333*
—— pituitary; treated with growth and thyrotropic hormones, 655†
DWARFISM (cont.)
—— renal; with hyperparathyroidism and congenital malformation of the kidneys, 401
—— with Addison's disease and diabetes mellitus, 403*
DYSGERMINOMA: *see* Ovary, tumors

ECLAMPSIA: *see* Pregnancy
EDEMA
—— localized, solid; in association with exophthalmic goiter, 883*
—— of pregnancy; cortical steroid excretion in, 319*
EDITOR, LETTERS TO: *see* Association, letters to the editor
EDITORIAL BOARD and Editor of the Journal: *see* Association
ELECTROCARDIOGRAM: *see* Heart
ELECTROCONVULSIVE THERAPY: *see* Convulsions
ELECTROENCEPHALOGRAM: *see* Brain
ELECTROLYTES: *see also* under specific chemical element involved; and under various endocrine glands
—— during treatment of diabetic keto-acidosis, 673†
—— effect of ACTH intravenously on, in man, 593*
—— effect of Compound E on, in Addison's disease, 660†
—— effect of single dose of desoxycorticosterone acetate on, in normal man, 660†
—— following single injection of ACTH, 661†
—— in controlled and uncontrolled diabetic ketosis and acidosis, 1259*
—— in Cushing's syndrome with "steroid diabetes," 672†
—— in hypokalemia, 691*
—— in pregnancy with Addison's disease, 514*
—— in serum, in Addison's disease, 1324*
—— in serum, in Cushing's syndrome; effect of KCl and testosterone therapy, 663†
—— in serum; in tumors at or near the pituitary, 1292*
—— relative independence of sodium and chloride excretion, 368*
EMOTIONAL STRESS: *see also* Stress
—— role of, in survival of treated adrenalectomized rats, 678†
EMPHYSEMA, mediastinal, and pneumothorax, following thyroidectomy, 987*
ENCEPHALOGRAM: *see* Brain
ENDOCRINE: *see also* Androgens; Estrogens; Gonadotropins; Hormones; Steroids; and under various glands

ENDOCRINE (cont.)
—— disorders; incidence of cancer in, 682†
—— disorders, various; relative independence of sodium and chloride excretion in, 368*
—— literature, abstracts of: *see* Abstracts
—— reviews, 171*, 557*
ENDOMETRIUM; ENDOMETRIOSIS: *see* Uterus
ENERGY metabolism: *see* Basal metabolism; Exercise; Temperature
ENZYMES: *see also* Blood
—— amino acid oxidase; effect of vitamin B, thyroid, and adrenalectomy on, in the rat, 684†
—— pepsidases in serum; effect of ACTH intravenously in man, 593*
—— phenosulphatase; in analysis of human pregnancy urine for conjugated sulphates of estrogens, 667†
—— phosphatase, alkaline, in serum; relation to carbohydrate metabolism in dogs, 907*
—— proteolytic; in the study of the thyroid gland, 298
EOSINOPHILES: *see* Blood, cells
EPINEPHRINE: *see* Adrenals, preparations, epinephrine
EPIPHYSES: *see* Bones
EPITHELIUM: *see* organ involved
EQUINE gonadotropin: *see* Gonadotropins
ERRATUM, 113
ESSAYS winning Van Meter Prize Award and honorable mentions, *see* American Goiter Association
ESTERS of testosterone, new; androgenic activity compared with testosterone propionate, 679†
ESTRADIOL; ESTRIOL; ESTRONE: *see* Estrogens
ESTROGENS: *see* also Climacteric; Gonadotropins; Hermaphrodism; Hormones; Menstruation; Ovary; Pregnancy; Progesterone; Puberty, precocious; Steroids
—— analysis of feminizing testicular tumor for, 579*
—— assay of theca-cell tumors of ovary for, 111
—— estrogen-producing Sertoli cell tumors of human testis and ovary, 301*
—— interrelation with vitamins, 557*
—— production by the testis, 579*
—— role in development of axillary and pubic hair, 555*
—— urate metabolism; sex difference in, 749*
EFFECTS AND THERAPY
—— activity of; limitations of vaginal smear glycogen as an index of, 1359*
ESTROGENS (cont.)
EFFECTS AND THERAPY (cont.)
—— assayed by means of human vaginal smear, 725*
—— buccal administration of, in tablets, 382*
—— effect on excretion of total and luteinizing gonadotropins in castrate female, 636*
—— effect on excretion of urinary gonadotropin in eunuchoid men, 113*
—— effect on urate metabolism in pseudohermaphrodism, 749*
—— effect on urinary gonadotropin in castrated female, 654†
—— estradiol benzoate (pellets) and other estrogens; effect on urethral and urinary sediment smears in the female, 1362*
—— estradiol esters more effective than stilbene derivatives in releasing luteinizing hormone in menopausal women, 668†
—— ethinyl estradiol; comparison of oral and intramuscular routes of administration, 573*
—— gynecomastia: *see* Breasts, gynecomastia
—— hyperestrinism induced by large doses of stilbestrol dipropionate; glycopenic vaginal smear in, 1359*
—— in acromegaly, 126*
—— in hyperthroidism, 330*
—— in staphylococcus infections, 680†
—— influence on rate of radioiodide uptake, 430*
—— intravenously, in gynecic disorders, 681†
—— intravenously injected sex and other hormones; effect on blood flow in human endometrium, 111
—— "priming" with, necessary for full effect of progesterone therapy, 736*
—— reproduction of menstrual changes by, in cervical mucus of human castrates, 479
—— stilbestrol; large doses of, in management of threatened abortion, 669†
—— toxemia (hypercalcemic syndrome) from, in patients with osteolytic metastases, 1*
—— use of, in medicine, 480
—— various; comparison of effects on vaginal mucosa, 480
—— various; comparison of potencies, and of routes of administration, 725*
METABOLISM
—— a review, 557*

ESTROGENS (cont.)
METABOLISM (cont.)
—— conjugated sulphates of, in human pregnancy urine, 667†
—— dibromestrone; tissue localization and excretion route of, 112
—— effect of progesterone on metabolism of, 557*
—— inactivation of, by liver; effect of dietary protein on, in rat, 675†
—— inactivation of, in women with vitamin B deficiency, 402
—— urinary; comparison of methods for hydrolysis of conjugated estrogens, 480
—— urinary; in acromegaly and granulosa cell tumor of ovary, 630*
—— urinary; in male dog with feminizing testicular tumor, 579*
—— urinary; in pregnant woman with Addison's disease, 514*
—— urinary; in pseudocyesis, 668†
—— urinary; in testicular chorioma: effect of removal of tumor, 615*
ESTRONE: *see* Estrogens
ESTRUS cycle in normal rat; excretion of 17-ketosteroids in, 795*
ETHINYL ESTRADIOL: *see* Estrogens
EUNUCHISM AND EUNUCHOIDISM: *see* Testis, disorders; Androgens; Pituitary
EXERCISE
—— effect on leukocytes and eosinophiles, 714*
—— eosinophiles and adrenal cortical activity in men, during, 529*
EXOPHTHALMIC GOITER: *see* Thyroid, disorders, hyperthyroidism
EXOPHTHALMOS: *see* Eyes; and Thyroid, disorders
EYES
—— changes in acromegaly, 126*
—— exophthalmos; effect of radioiodine therapy on, 29*
—— exophthalmos; effect of various doses and iodination of pituitary extract on; effect of ACTH and of DOCA on production of, in guinea pigs, 913*, 927*, 937*
—— exophthalmos, malignant; studied by radioiodine, 342*
—— exophthalmos; parallelism with myxedema circumscription thyrotoxicum, 883*
—— exophthalmos; relation to type of parenchymal replacement in hyperplastic thyroid gland, 1202*
—— visual fields in case of pituitary tumor; effect of androgen therapy, 372*

FAMILIAL
—— factor, in cancer and in endocrine disease, 682†
—— family history, in diabetes mellitus, 48*
—— family history, in gout, 749*
—— family history of diabetes in osteitis deformans, 385*
FAT: *see also* Cholesterol; Diabetes mellitus, ketosis; Lipids; Nutrition; Obesity
—— lipid content of certain ovarian and testicular tumors, 301*, 579*, 774*
—— metabolism; effect of steroid hormones on blood ketones and other products of fat catabolism, 671†
—— mobilization of; effect of various doses and iodination of pituitary extract; effect of ACTH and of DOCA on, in guinea pigs, 913*, 927*, 937*
—— mobilization of, to the liver; influence of adrenal cortex and thyroid, in the mouse, 657†
FELLOWSHIPS: *see* Awards
FERTILITY: *see* Sterility
FETUS: *see also* Infants; Pregnancy
—— death of; hormonal test for, 402
—— effect on, of thiouracil in treatment of mother for thyrotoxicosis, 903*
—— function of adrenal cortex in, 646*
FIBROSIS: *see* Tissues; and under specific organs
FLUOROTHYRONINE: *see* Thyronine
FOLIC ACID: *see* Vitamins
FOLLICLE-STIMULATING HORMONE (FSH): *see* Gonadotropins; Pituitary
FRIEDMAN TEST: *see* Pregnancy; Tests
FROGS
—— care and maintenance of, for pregnancy test, 1372*
—— male; hormonal factors producing sperm release in, 668†
FROHLICH'S SYNDROME: *see* associated with Ovarian, Pituitary and Testicular disorders
FSH: *see* Gonadotropins; Pituitary

GALACTOSE: *see* Carbohydrate metabolism
GAMMA RAY counting, in measurement of urinary I^{131}, 841*
GASTRO-INTESTINAL TRACT
—— concentration of radioactivity in, in study of labeled iodocasein in myxedema, 828*
—— enterogastrone; effect on histamine and insulin stimulated gastric secretion in man, 399
—— gastric hyperacidity following insulin shock therapy, 394
—— radioactive iodine in feces after oral

GASTRO-INTESTINAL TRACT (cont.)
and i.v. administration of labeled racemic thyroxine in myxedema, 1406*
——radioactive iodine in feces following administration of labeled iodide, thyroglobulin and thyroxine in myxedema, 1392*
GLUCOSE: *see* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus; Insulin
GLYCINE, *see* Carbohydrate metabolism
GLYCOGEN: *see also* Carbohydrate metabolism; Diabetes mellitus; Liver
——in muscle; influence of DOCA on, in Vitro, 397
—— in vaginal smear; limitations of, as an index of estrogen activity, 1359*
GLYCOSURIA: *see* Carbohydrate metabolism; Diabetes mellitus
GOITER: *see* Thyroid, disorders
GOITROGENS: *see also* Thiouracil; and Thyroid disorders
—— a naturally occurring goitrogen, thiooxazolidone, 1069*
—— effect on fetus, 903*
—— in hyperthyroidism, 1232*
—— in thyrotoxicosis complicating pregnancy, 903*
—— study of thyroxine, tetrabrom- and tetrachlorthyronine, 1099*, 1107*
GONADOTROPINS: *see also* Pituitary, preparations; Pregnancy
—— antigonadotropin formation in man, 654†
—— antigonadotropins complicating treatment of infertile men, 213*
—— antihormones to; effect on sperm, testis and urinary gonadotropins, 355*
—— chorionic, and testosterone; spermatogenesis following therapy with, 1245*
—— chorionic; antihormone formation during therapy with, 384*
—— chorionic; effect of various methods of administration on excretion of, 268*
—— chorionic; local systemic reaction to injection of beeswax solution, 268*
—— chorionic; spermatogenesis following administration of; coincidental neoplasm, 163*
—— effect on sperm release in frog, used as test for pregnancy, 668†
—— equine; for intravenous use in gynecic disorders, 681†
—— evaluation and differentiation of, by their action on the male toad, 297
—— in pregnancy: *see* Pregnancy, tests
IN URINE
—— chorionic: *see* also Pregnancy, tests
—— chorionic; in cases of blighted ovum, 676†
GONADOTROPINS (cont.)
IN URINE (cont.)
—— chorionic; in hyperthyroidism, 330*
—— chorionic, in pregnant and nonpregnant women; following various methods of administration, 268*
—— chorionic in serum and urine; in pregnancy, in neoplasm of testis and in hydatidiform mole, 615*
—— effect of antihormones on, 355*
—— effect of pituitary antihormone on, in infertile men, 355*
—— estimation of total and luteinizing gonadotropins in, in males and nonpregnant females, 654†
—— Friedman test in masculinizing tumor of ovary, 774*
—— FSH and LH in urine of menopausal women; action of estrogens on release of LH, 668†
—— FSH in paraplegic males with gynecomastia, 457*
—— in adrenal cortical carcinoma in a male, 451*
—— in eunuchoid men; inability of testosterone to reduce, 113*
—— in feminizing testicular tumor in male dog, 579*
—— in infertile men, 213*
—— in male hypogonadism, 1245*
—— in precocious puberty associated with ovarian dysgerminoma, 1349*
—— in pregnancy: *see* Pregnancy, tests
—— in pregnant woman with Addison's disease, 514*
—— in pseudocyesis, 668†
—— in test for fetal death, 402
—— in Turner's syndrome in a male, 1333*
—— in uterine leiomyoma; effect of progesterone therapy, 1273*
—— method for differentiation of, in nonpregnant females and in males, 636*
GONADS: *see* Androgens; Estrogens; Gonadotropins; Hermaphrodism; Ovary; Testis
GOUT
—— characteristic urinary 17-ketosteroid and androgen findings in, 497*
—— marked difference between tophaceous and pretophaceous in women, 749*
—— sex, and age difference in urate metabolism in, 749*, 666†
GRANTS: *see* Awards
GRAVES' DISEASE: *see* Thyroid, disorders, hyperthyroidism
GROWTH: *see also* Children; Dwarfism; Ovary; Pituitary; Puberty, precocious; Testis

GROWTH (cont.)
—— hormone, *see also* Pituitary, preparations
—— hormone of pituitary in treatment of pituitary dwarfism, 655†
—— physical, during adolescence, 400
GUTERMAN TEST: *see also* Pregnancy, tests
—— modification of, 852*
GYNECOMASTIA: *see* Breast

HAIR: *see also* Cushing's syndrome; Hermaphrodism; Puberty, precocious; Virilism; and under various endocrine disorders
—— axillary; growth of, as an index of endocrine status; relation to urinary steroids, 665†
—— axillary, in the male; local action of testosterone on development of, 1434*
—— axillary and pubic; loss of, in woman with Addison's disease and regular menstruation, 555*
HIRSUTISM
—— associated with Leydig-cell ovarian tumor, 486*
—— associated with masculinizing ovarian tumor, 774*
—— idiopathic; excretion of 17-ketosteroids, in, 795*
—— in areas of myxedema circumscription thyrotoxicum, 853*
HEART
—— angina pectoris; treatment with propylthiouracil, 106
—— auricular fibrillation; relation to type of parenchymal replacement in hyperplastic thyroid gland, 1202*
—— effect of potassium on human electrocardiogram, 691*
HEAT
—— hormonal alterations in men exposed to; effect of ACTH on, 529*
—— production, *see* Basal metabolism; Exercise; Temperature
HEIGHT: *see* Children; Dwarfism; Growth
HERMAPHRODISM: *see also* Ovary; Puberty, precocious; Testis; Virilism
—— and pseudohermaphrodism in children; adrenal cortical function in, 674†
—— pseudohermaphrodism with adrenogenital syndrome; urate metabolism in; effect of stilbestrol and of surgery, 749*
HIRSUTISM: *see* Hair
HONORABLE MENTIONS, for Van Meter Prize; *see* American Goiter Association
HORMONES: *see also* Androgens; Estrogens; Gonadotropins; Insulin; Progesterone; Steroids; and under various endocrine glands
—— antihormones, *see* Antihormones
—— hormonal alterations in men exposed to heat and cold stress; effect of ACTH on, 529*
—— incidence of cancer in endocrine case histories, 682†
HÜRTHLE CELLS: *see* Thyroid, disorders and pathology
HYDATIDIFORM MOLE: *see* Uterus
HYPERCALCEMIA AND HYPERCALCEMIC SYNDROME: *see* Blood, calcium; Calcium metabolism; Kidney; Parathyroids
HYPEREMIA TEST: *see* Ovary; Pregnancy, tests; Tests
HYPERGLYCEMIA: *see* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus
HYPERMETABOLISM: *see also* Basal metabolism
—— associated with pheochromocytoma, 782*
—— studied under pentothal anesthesia, 1190*
HYPERSENSITIVITY: *see* Allergy; and under preparation involved
HYPERTENSION: *see* Vascular system
HYPERTHYROIDISM: *see* Thyroid, disorders, hyperthyroidism
HYPERTRICHOSIS: *see* Hair, hirsutism
HYPERURICEMIA, idiopathic; urinary 17-ketosteroids in, 497*
HYPERVENTILATION; effect on blood pressure in pheochromocytoma, 782*
HYPOGENITALISM: *see* Hermaphrodism; Menstruation; Ovary, disorders; Pituitary, disorders; Sterility; Testis, disorders
HYPOGLYCEMIA: *see* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus; Insulin
HYPOGONADISM: *see* Hermaphrodism; Menstruation; Ovary, disorders; Pituitary, disorders; Sterility; Testis, disorders
HYPOKALEMIA, 691*
HYPOTHALAMUS
—— hypothalamic manifestations with pheochromocytoma, 782*
—— tumors near the pituitary; SPI in, 1292*
HYPOTHYROIDISM: *see* Thyroid, disorders, hypothyroidism

IMPLANTATION: *see* Administration; and under Adrenal preparations; Androgens; Estrogens; Insulin; Progesterone

IMPOTENCE: *see* Sterility; Testis
INDEX, to Volume 9 (1949)
—— author, 1443
—— subject, 1455
INFANT: *see also* Congenital anomalies; Children; Fetus; Pregnancy
—— diabetes mellitus in, 396
—— excretion of neutral lipid-soluble reducing substances in, as index of adrenal cortical function, 646*
—— followed for sixteen months; mother treated with thiouracil for thyrotoxicosis when pregnant, 903*
—— somatosexual aberrations in; role of adrenal cortex, 674†
—— with pseudohypoparathyroidism, 862*
INFANTILISM: *see* Dwarfism; Growth; Ovary; Pituitary; Testis
INFECTIONS
—— associated with onset of diabetes; incidence, 48*
—— staphylococcus; sex hormone therapy of, 680†
INFERTILITY: *see* Sterility
INFLAMMATION: *see* Infections
INSULIN: *see also* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus; Pancreas
—— and histamine-stimulated gastric secretion; influence of enterogastrone on, 399
—— content of pancreas reduced in nondiabetics dying of debilitating disease, 471*
—— effect on adrenal activity in diabetes, 672†
—— effect on adrenal cortical hormone in blood of dogs, 658†
—— effect on electrolyte balance, particularly of potassium, in diabetes mellitus, 1245*
—— for relief of pain in osteitis deformans, 385*
—— generalized allergy to, 895*
—— human; preparation of, for experimental use, 481*
—— hyperglycemic effect of, 398
—— hypoglycemia from small doses of; prevention by hyperglycemic factor extracted from pancreas, 669†
—— hypoglycemia in the rat; stimulation of nitrogen metabolism by adrenal cortical extract during, 657†
—— in treatment of diabetes mellitus with Addison's disease, 403*
—— protamine-zinc; for successful implantation in normal and diabetic rabbits, 818*
—— requirements in case of Addison's disease combined with diabetes mellitus, 245*
—— sensitivity in decerebrate rats, 670†
—— shock therapy; gastric hyperacidity following, 394
—— studies in biochemistry of, with aid of radioactive carbon, 1238*
—— tolerance curve in Turner's syndrome in a male, 1333*
—— tolerance, in masculinizing tumor of ovary, 774*
—— unusual sensitivity to, in diabetes mellitus following Addison's disease, 36*
—— urinary excretion of, by normal and diabetic subjects, 395
IODINE: *see also* Thiouracil; Thyroid
—— and goiter in Yunnan province, 684†
—— effect of iodide ion on thyroid iodine utilization, in euthyroidism and in hyperthyroidism, 941*
—— *in blood, see* Blood, iodine
—— iodide clearance of thyroid, in normal subjects, 941*
—— iodinated thiouracils; antithyroid action of, 801*
—— iodination of pituitary extract; effect on thyrotropic, exophthalmic and fat-mobilizing principles of, 927*
—— mechanism of release of iodized compounds from the thyroid, 149*
—— organic and inorganic; their reciprocal metabolic fates; hormonal *vs.* nonthyroid iodine, 1080*
—— stable; effect of, on radioiodine uptake of thyroid, 342*
—— strong solution of, in treatment of hyperthyroidism, 1232*
—— therapy, in pheochromocytoma with excessive hypermetabolism, 782*
—— urinary excretion of I^{127} in estimation of rate of thyroid hormone formation in man, 941*
RADIOACTIVE
—— diiodotyrosine and derivatives, in study of "thyrenzyme," 1080*
—— distribution in tissues after injection into rats, 1080*
—— distribution of, in a patient with metastatic adenocarcinoma of the thyroid (necropsy), 1379*
—— fecal and urinary excretion and blood levels in myxedema, following administration of labeled iodide, thyroglobulin and thyroxine, 1392*
—— fecal and urinary excretion, blood levels, and in vivo observations, in study of labeled iodocasein in myxedema, 828*

IODINE (cont.)
RADIOACTIVE (cont.)
—— in blood, urine and tissues in myxedema, following labeled and unlabeled racemic thyroxine, orally and i.v., 1406*
—— in estimation of rate of thyroid hormone formation in man; thyroid uptake and urinary excretion of I^{131}, 941*
—— in expired air (pulmonary clearance), in serum and in urine, in thyroid carcinoma, 1080*
—— in study and treatment of thyroid disease; a review, 171*
—— in study of antithyroid activity of foods, 1069*
—— in study of functional capacity of malignant thyroid tumors, 1012*, 1153*, 1171*
—— in study of iodinated thiouracils, 801*
—— in study of thyroid function in man, 342*
—— in treatment of hyperthyroidism, 29*, 1232*, 298, 300
—— in treatment of metastases from cancer of thyroid, 1122*, 1138*
—— labeled sodium iodide compared with labeled iodocasein, in myxedema; metabolism of, 828*
—— labeled thyroglobulin and thyroxine; behavior of, in myxedema, 1392*
—— radioautography in preoperative estimation of function in thyroid nodules, 1171*
—— radioautography in study of iodine uptake in normal and malignant tissues, 1379*
—— six-year follow-up of metastatic thyroid cancer patient, treated with, 1122*
—— thyroid collection of, and PBI, in senescence, hypothyroidism and hypopituitarism, 430*
—— thyroid uptake of; effect of adrenal compounds on, in Addison's disease and in panhypopituitarism, 659†, 660†
—— thyroid uptake of, in various endocrinopathies, 342*
—— toxic effects from therapy with, 1138*
—— tracer technique with I^{131} as substitute for BMR, 664†
—— urinary; comparison of measurements by beta and by gamma ray counting, 841*
—— urinary excretion of, as aid in diagnosis of hyperthyroidism, 299
IODINE (cont.)
RADIOACTIVE (cont.)
—— urinary excretion of, in metastatic thyroid cancer; effect of TSH and of thiouracil on, 1138*
—— urinary excretion of, in normal subjects and in myxedema, 171*
—— urinary excretion of, in thiocyanate goiter with myxedema, 446*
—— used to visualize mechanism of secretion of thyroid hormone, 149*
—— utilization of, by thyroid cancer metastases to bone; studied by radioautography, 1122*, 1138*
IODOCASEIN, labeled; behavior in human myxedema, 828*
IRRADIATION: *see* Radioactive; and Roentgen ray

JEFFERSON Medical College and Hospital Fellowship, 212, 292

KELLOGG FOUNDATION, fellowships for Latin-American Physicians, 689
KETONES: *see* Blood; Diabetes mellitus
KETOSIS: *see* Diabetes mellitus
KETOSTEROIDS AND 17-KETOSTEROIDS: *see* Steroids
KIDNEY: *see also* Urine
—— antidiuretic, nonchloruretic substance extracted from urine, 652†
—— effect on distribution and metabolism of circulating testosterone, 665†
—— function in adrenal insufficiency, 109
—— function, in gout, 497*
—— in Addison's disease combined with diabetes mellitus (autopsy), 245*
—— in Cushing's syndrome, 13*
—— nephrosclerosis associated with pheochromocytoma, 782*
—— nephrosclerosis; relation to alarm reaction, 479
—— nephrotic syndrome; plasma urate in; effect of ACTH on, 749*
—— possible role in separating hormones and antihormones, 213*
—— renal clearance in cirrhosis of the liver, 682†
—— renal clearance of chorionic gonadotropin in pregnancy, neoplasm of testis, and hydatidiform male, 615*
—— renal dwarfism with hyperparathyroidism and congenital malformation of the kidneys, 401
—— renal function in normal and adrenalectomized rats following saline or adrenal steroid administration, 658†
—— renal insufficiency and nephrocalcinosis associated with sex hormone therapy for osteolytic metastases, 1*

KIDNEY (cont.)
—— role of, in the potassium deficiency of alkalosis, 676†
—— urate clearance and glomerular filtration rate, in gout, 749*

LABOR: *see* Pregnancy; Uterus
LACTATION: *see* Breast; Pituitary, prolactin; Pregnancy
LATIN-AMERICAN PHYSICIANS: fellowships for, 689
LAURENTIAN HORMONE CONFERENCE FOR 1949
—— announcements of, 393, 577
—— program of, 577
LEIOMYOMA: *see* Uterus
LETTERS TO THE EDITOR: *see* Association, letters to the editor
LEUKEMIA
—— lymphatic; width of adrenal cortex in 158*
LEUKOCYTES: *see* Blood, cells
LEYDIG CELL: *see also* Testis
—— tumor of ovary, with virilism, 486*
LIPIDS: *see also* Cholesterol; Fat
—— abundant, in feminizing testicular tumor, 579*
—— in serum, *see* Blood
—— in urine and serum, in pituitary disease, 1292*
—— lipoid content of estrogen-producing Sertoli cell tumors, 301*
—— lipoid content of masculinizing ovarian tumor, 774*
LITERATURE, current endocrine; abstracts of; *see* Abstracts
LIVER
—— bile; high concentration of dibromestrone in, after injection, 112
—— cirrhosis of; renal clearance in, 682†
—— cirrhotic patients; antidiuretic nonchloruretic substance extracted from urine of, 652†
—— concentration of radioactivity in, in study of labeled iodocasein in myxedema, 818*
—— effect on distribution and metabolism of circulating testosterone, 665†
—— fat deposition in: effect of various doses and iodination of pituitary extract; effect of ACTH and of DOCA on, in guinea pigs, 913*, 927*, 937*
—— function, in gout, 497*
—— hepatitis; metabolism of glucose and galactose in, 670†
—— hepatosplenomegaly associated with corticoadrenal tumor, goiter and gynecomastia, 255*
—— inactivation of estradiol by; effect of dietary protein on, in rat, 675†
LIVER (cont.)
—— mobilization of fat to; possible involvement of adrenal cortex and thyroid, in the mouse, 657†
—— radioactivity over, after administration of labeled thyroglobulin and thyroxine, in myxedema, 1392*
—— radioiodine in, fifty-six hours after ingestion of, for thyroid cancer, 1379*
—— role in inactivation of estrogens, 557*
—— "thyroxine space" in, studied by radiothyroxine in myxedema, 1406*
LUTEINIZING HORMONE: *see* Gonadotropins; and Pituitary, preparations
LYMPHOCYTES: *see* Blood, cells; and Lymphoid tissue
—— lymphocytic infiltration, in cellular involution of the thyroid, 874*
—— lymphocytic infiltrations in thyroid and liver, in Addison's disease and diabetes mellitus (autopsy), 36*
—— lymphocytic infiltration of ovarian dysgerminoma, 1349*
—— lymphocytic replacement in hyperplastic thyroid; statistical study of clinical significance, 1201*
—— lymphosarcoma, *see* Lymphosarcoma
—— struma lymphomatosa, Hashimoto's disease, *see* Thyroid, disorders
LYMPHOID TISSUE: *see also* Lymphocytes
—— diseases; width of adrenal cortex in, 158*
LYMPHOSARCOMA
—— of the thyroid, 1043*
—— width of adrenal cortex in, 158*

MALNUTRITION: *see* Anorexia nervosa; Nutrition; Vitamins
MANNITOL, renal excretion of, in Cushing's syndrome, 13*
MARE gonadotropin, *see* Gonadotropins, equine
MASTITIS: *see* Breast
MEDICAL ILLUSTRATION, course in, 295
MENOPAUSE: *see* Climacteric
MENSTRUATION: *see also* Climacteric; Estrogens; Pregnancy; Progesterone; Ovary; Puberty, precocious; Uterus; Vagina, smears
—— circulating eosinophiles during cycle, 714*
—— cyclic changes in cervical mucus produced artificially in human castrates, 479
—— disorders of; intravenous estrogen in, 681†
—— effect of alpha-tocopherol on pregnanediol excretion during cycle, in

MENSTRUATION (cont.)
normal and in sterile women, 743*
—— effect of progesterone therapy for uterine leiomyoma on, 1273*
—— functional menstrual disorders; antigonadotropin formation in, during treatment, 654†
—— gonadotropin excretion in, 636*
—— in eight-year-old girl with ovarian dysgerminoma, 1349*
—— *menopause, see* Climacteric
—— metrorrhagia, associated with tubular testicular adenoma of ovary, 301*
—— normal cycle and gynecic disorders; correlation of vaginal smear and endometrial biopsy in, 673†
—— ovulation, *see also* Ovary; Progesterone; Sterility
—— prediction of time of human ovulation, by rat ovarian hyperemia test, 110
—— pregnanediol in urine during normal cycle, 234*, 852*
—— regular, in spite of loss of axillary and pubic hair, in woman with Addison's disease, 555*
—— relation to ketosteroid excretion in normal women and in idiopathic hirsutism, 795*
—— serum protein-bound iodine during normal cycle, 768*
AMENORRHEA
—— diagnosis and classification of; progesterone withdrawal test in, 110
—— during androgen therapy for bone metastases from breast cancer, 1314*
—— effect of estrogen therapy on urethral smear in, 1362*
—— following radioiodine therapy for thyroid cancer, 1138*
—— of acromegaly, dispelled by granulosa cell tumor of ovary, 630*
—— secondary; comparison of routes of administration of progesterone in, 736*
MENTAL DISEASE: *see also* Brain; Nervous System; Psychoneurosis
—— decrease in eosinophiles following electroconvulsive therapy for, 440*
—— changes in urinary, uric acid-creatinine ratio, after shock therapy for, 548*
—— insulin shock therapy in; gastric hyperacidity following, 394
—— thyroid therapy in, 298
METABOLISM: *see* Basal metabolism; Hypermetabolism; and under specific substances concerned
METHIONINE, S^{35}-labeled, in the study of protein metabolism in Cushing's syndrome, 662†
METHODS: *see also* Administration; Pregnancy, tests; Tests
—— comparison of biologic and chemical methods for urinary corticoids, 659†
—— comparison of methods for hydrolysis of conjugated urinary estrogens, 480
—— for assay of prolactin in human urine, 653†
—— for care and maintenence of toads and frogs for pregnancy test, 1372*
—— for differentiation of urinary gonadotropins of nonpregnant humans, 636*
—— for direct estimation of rate of thyroid hormone formation in man; and for calculating serum iodide, 941*
—— for measuring intercorneal distance, in study of exophthalmos in animals, 913*
—— for obtaining urethral smear in the female, 1362*
—— for preparation of human insulin for experimental use, 481*
—— for radioautographic estimation of thyroid nodules, 1171*
—— measurement of urinary I^{131} by beta and by gamma ray counting; a comparison, 841*
—— modification of Guterman pregnanediol test for pregnancy, 852*
—— new colorimetric; for pregnanediol, 399
—— of administration, *see* Administration; and various substances involved
—— rapid colorimetric, for sodium in biologic fluids, 95*
—— simple; for estimation of blood sugar, 394, 397
—— simplified; for determination of protein-bound blood iodine, 1185*
—— simplified; for quantitative colorimetric estimation of pregnanediol in urine, 479
METHYLTESTOSTERONE, *see* Androgens
METHYLTHIOURACIL: *see* Thiouracil
MUSCLES: *see also* Creatinine; Nutrition; Potassium; Protein; Uterus
—— debilitating disease; effect on insulin content of pancreas, 471*
—— effect of potassium on, 691*, 1259*
—— exercise; effect on adrenal cortical activity and eosinophiles in men, 471*
—— exercise; effect on leukocytes and eosinophiles, 714*
—— leiomyomas, uterine; effect of progesterone on, 1273*
—— the myogram in normal subjects and in those with Addison's disease, thyrotoxicosis and progressive muscular atrophy, 401

MUSCLES (cont.)
—— utero-tubal persufflation curve, in myxedema, 285*
MYXEDEMA: *see* Thyroid, disorders, hypothyroidism

NATIONAL RESEARCH COUNCIL
—— Committee on Growth: recommendations for British American exchange fellowships of American Cancer Society, 575
—— grants for research in endocrinology (1949–50), 102
NECK, webbed, associated with rudimentary testes and dwarfism, 1333*
NEOPLASMS: *see* Tumors; and under various endocrine disorders
NEPHROSCLEROSIS; NEPHROSIS: *see* Kidney
NERVOUS SYSTEM: *see also* Brain; Emotion; Mental; Psychoneurosis
—— nervous instability *vs.* hyperthyroidism: differential diagnosis of: by antithyroid drugs, 1054*; by basal metabolism testing under pentothal anesthesia, 1190*
—— in hypokalemia, 691*, 1259*
—— sympathicotropic cell tumor of ovary, 486*
NEUTROPHILES: *see* Blood, cells
NITROGEN: *see also* Blood; Creatinine; Protein; Uric acid
—— balance in Cushing's syndrome with "steroid diabetes," 672†
—— balance in diabetes mellitus with Addison's disease, 403*
—— balance in diabetic keto-acidosis, treated with insulin, 1245*
—— metabolism, following single injection of ACTH, 661†
—— metabolism; stimulation of, by adrenal cortical extract, during insulin hypoglycemia in the rat, 657†
—— total amino acids and glycine in various pathologic conditions, 398
—— urinary, increased following ACTH intravenously, 593*
NOR-EPINEPHRINE, in adrenal medulla, 652†
NOTICES: *see* Announcements
NUTRITION: *see also* Anorexia Nervosa; Diet; Obesity; Vitamins
—— chronic malnutrition in the rat; adequacy of ACTH function in, 656†
—— debilitating disease; effect on insulin content of pancreas, 471*
—— effect of fasting on diabetes mellitus following Addison's disease, 36*
—— potassium; in chronically ill, undernourished patients, 691*

OBESITY: *see also* Fat; Nutrition; and associated with endocrine disorders
—— effect of large single dose of thyroid globulin in, 377*
—— hemosedimentation test in, 683†
—— in diabetes mellitus, 48*
—— radioiodine uptake of thyroid in, 342*
—— results of prolonged medical treatment with diet—alone, with thyroid, and with amphetamine, 275*
OFFICERS of the Association: *see* Association, officers
OLIGOSPERMIA: *see* Testis, disorders, spermatozoa
ORAL, methods of administration; comparison with other methods, *see* Administration
—— buccal tablets of estrogen in treatment of ovarian deficiency, 382*
—— intraoral DCA tablets in treatment of Addison's disease, 1324*
OSTEITIS: *see* Bones
OVARY: *see also* Breast; Climacteric; Estrogens; Gonadotropins; Hermaphrodism; Menstruation; Pregnancy; Progesterone; Puberty, precocious; Sex; Sterility; Uterus; Vagina; Virilism
DISORDERS
—— amenorrhea, *see* Menstruation
—— blighted ovum; pregnanediol excretion in patients with, 676†
—— castrated females; differentiation of urinary gonadotropins in, 636*
—— climacteric, *see* Climacteric
—— deficiency; treated with buccal tablets of estrogen, 382*
—— failure; excretion of total and luteinizing gonadotropins in, 636*
—— insufficiency, associated with coarctation of the aorta, dwarfism, 622*
—— menopause, *see* Climacteric
—— menstrual disorders, *see* Menstruation
—— precocious puberty, *see* Puberty precocious
—— pseudohermaphrodism, *see* Hermaphrodism
—— *therapy: see* Estrogens; Gonadotropin; Progesterone
Tumors
—— dysgerminoma, in 8-year-old girl; the only case of precocious puberty with hormone assays, 1349*
—— estrogen-producing Sertoli cell tumors of, (androblastoma tubulare lipoides), 301*
—— granulosa cell tumor and acromegaly, 630*

OVARY (cont.)
DISORDERS (cont.)
Tumors (cont.)
—— masculinizing, in a postmenopausal woman, 774*
—— sympathicotropic (Leydig) cell tumor of, with virilism, 486*
—— theca-cell; 15 cases and review of literature, 111
—— virilizing, 112
PHYSIOLOGY
—— hyperemia of, in mouse, as a method for estimating urinary luteinizing gonadotropins in nonpregnant human, 636*, 654†
—— hyperemia of, in rat, used in 2-hour pregnancy test, 479
—— lack of uptake of iodine by, following treatment with radioiodine, 1138*
—— normal nonpregnant women; differentiation of urinary gonadotropins in, 636*
—— normal women; urinary 17-ketosteroid excretion in, 426*
—— ovariectomy; effect on ketosteroid excretion in normal rat, 795*
—— ovulation as indicated by pregnanediol precipitation test, 234*
—— ovulation, human; prediction of time of, by the rat ovarian hyperemia test, 110
—— transplanted into spleen; effect of castration and pregnancy on, in rats, 667†
PREPARATIONS: *see* Estrogens; Progesterone; Steroids
OVULATION: *see* Menstruation; Ovary, physiology; and Pregnancy

PAIN
—— of osteitis deformans relieved by insulin, 385*
—— relief of, by androgen therapy, in patients with bone metastases from breast cancer, 1314*
PANCREAS: *see also* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus; Insulin
—— hyperglycemic factor extracted from, 669†
—— in diabetes mellitus following Addison's disease (autopsy), 36*
—— in preparation of human insulin for experimental use, 481*
—— insulin content reduced in nondiabetics dying of debilitating disease, 481*
—— islet cell atrophy of, in Addison's disease with diabetes, 403*
—— regeneration of beta cells in, after implantation of PZ insulin, in rabbit, 818*
PANHYPOPITUITARISM: *see* Pituitary disorders
PARA-AMINOHIPPURATE, renal excretion of, in Cushing's syndrome, 13*
PARAPLEGIC MALES; gynecomastia in, 457*
PARATHYROIDS: *see also* Calcium metabolism; Thyroid
—— hyperparathyroidism, with congenital malformation of kidneys, and renal dwarfism, 401
—— pseudohypoparathyroidism, 665†
—— pseudohypoparathyroidism; electrolyte metabolism in; therapy, 862*
—— tetany after surgery of thyroid; increased incidence since use of antithyroid drugs, 999*
—— tetany; incidence of, following total thyroidectomy for toxic goiter, 1048*
PELLET IMPLANTATION: *see* Administration
PENIS: *see also* Androgen and Gonadotropins, effects; Hermaphrodism; Puberty, precocious; Testis
—— effect of androgen and growth hormone on, in castrated, hypophysectomized rats, 679†
PENTOTHAL anesthesia; basal metabolism testing under, 1190*
PHEOCHROMOCYTOMA: *see* Adrenals, tumors
PERSUFFLATION curve, utero-tubal, in myxedema, 285*
PHOSPHATASE: *see* Enzymes
PHOSPHORUS: *see also* Calcium metabolism; Parathyroids
—— balance in Cushing's syndrome with "steroid diabetes," 672†
—— behavior of, in diabetic keto-acidosis, 673†
—— in blood, in acromegaly, 126*
—— in blood, in hypercalcemic syndrome, 1*
—— in serum; relation to hypopotassemia in diabetic ketosis treated with insulin, 1245*
—— metabolism, in pseudohypoparathyroidism, 862*, 665†
PIGMENTATION: *see* Addison's disease; Skin
PIPERIDO-METHYL-BENZODIOXANE (933-F), antagonist of epinephrine, 651†
PITRESSIN: *see* Pituitary, preparations
PITUITARY: *see also* Cushing's syndrome; Gonadotropins
DISORDERS
—— acromegaly, active and inactive; plasma urate in, 749*

PITUITARY (cont.)
DISORDERS (cont.)
—— acromegaly and granulosa cell tumor of ovary, 630*
—— acromegaly, chromophobe adenoma and panhypopituitarism; radioiodine uptake of thyroid in, 342*
—— acromegaly, treatment of, 126*
—— acromegaly; TSH and thyroxine in serum, 653†
—— chromophobe adenoma observed for nine years; effect of androgen therapy, 372*
—— Cushing's syndrome, *see* Cushing's syndrome
—— diabetes insipidus; hypersensitivity to pitressin in treatment of, 650*
—— dwarfism; cellular structure of testes in, 1333*
—— dwarfism, treated with anterior pituitary extract, 655†
—— hypopituitarism as cause of gynecomastia in paraplegic males, 457*
—— hypopituitarism; thyroid collection of I^{131}, and serum PBI in, 430*
—— implications, in hypertrophic pulmonary osteoarthropathy, 297
—— panhypopituitarism; effect of adrenal compounds on thyroid uptake of radioiodine in, 659†
—— panhypopituitarism; spermatogenesis following treatment, 1245*
—— tumor; response of patient to single injection of ACTH in, 661†
—— tumor; urinary prolactin in, 653†
—— tumors of, or near; low serum precipitable iodine in; differential diagnosis *vs.* hypothyroidism, 1292*
GONADOTROPINS: *see* Gonadotropins
HORMONES: *see* Gonadotropins; and Pituitary, preparations
PHYSIOLOGY AND PATHOLOGY
—— anemia of hypophysectomized rats; effects of nonendocrine hemopoietic agents on, 676†
—— sex difference in secretory control and function of, 654†
—— testis-pituitary interrelationship, 113*
PREPARATIONS AND COMPOUNDS
—— exophthalmic and fat-mobilizing principles of pituitary extract; relation to thyrotropic hormone, 913*
—— extract; effect of various dosages and iodination of, on production of exophthalmos, and mobilization of fat in intact and thyroidectomized guinea pigs, 913*, 927*
—— FSH, *see* Gonadotropins

PITUITARY (cont.)
PREPARATIONS AND COMPOUNDS (cont.)
—— gonadotropic hormone, *see* Gonadotropins
—— growth hormone; effect on penis of castrated, hypophysectomized rat, 679†
—— growth hormone, in the treatment of pituitary dwarfism, 655†
—— luteinizing hormone in pseudocyesis, 668†
—— pitressin; hypersensitivity to; relief from benadryl, 650*
—— posterior pituitary extract; shock from, 106
—— prolactin, in urine; assay of, in various endocrine disorders, 653†
Adrenocorticotropic hormone (ACTH): see also Adrenals, physiology
—— adequacy of ACTH function in nutritional deficiencies in the rat, 656†
—— content of ACTH in pituitary gland of rats, 656†
—— effect of large amounts on free and esterified serum cholesterol in normal men, 656†
—— effect of single injection of, in normal subjects and in those with Addison's disease and with pituitary tumor, 661†
—— effect on adrenal cortical hormone in blood of dogs, 658†
—— effect on eosinophiles and uric acid excretion, 109
—— effect on eosinophiles, following major surgery, 662†
—— effect on eosinophiles, in mental disease, 440*
—— effect on exophthalmos and fat mobilization in guinea pigs, 937*
—— effect on urate metabolism, 749*
—— evaluation of adrenal cortex response by, in heat and cold stress, 529*
—— inability of, to deplete ascorbic acid of chick adrenal, 655†
—— metabolic actions and fate of, when administered intravenously in man, in large single dose, 593*
—— production of, inhibited by testosterone therapy, in Cushing's syndrome, 663†
—— regulation of, by adrenal cortical hormones, 656†
Thyrotropic hormone (TSH): see also Thyroid, physiology
—— content of pituitary, in rats treated with tetrabrom- and tetrachlorthyronine, 1107*

PITUITARY (cont.)
PREPARATIONS AND COMPOUNDS (cont.)
Thyrotropic hormone (cont.)
—— in normal and pathologic serum; assayed by stasis tadpole, 653†
—— effect in pituitary dwarfism, 655†
—— effect on metabolism of radioiodine by the thyroid, 171*
—— high production of, as possible cause of myxedema circumscription thyrotoxicum, 883*
—— in patients with tumors at or near the pituitary, 1292*
—— inactivation of, by iodinated pituitary extract; partial restoration by thiouracil, 927*
—— relation to exophthalmic and fat-mobilizing principles of pituitary extract, 913*
—— role in thyroid research, 300
—— thyroid-pituitary apparatus as a servo (feed-back) mechanism, 1429*
—— use of, to induce radioiodine uptake by metastases from thyroid cancer, 1122*, 1138*
PLACENTA: *see Pregnancy; Uterus*
—— chorionic gonadotropin from, *see* Gonadotropins
PLASMA: *see* Blood
PLUMMER, HENRY S., subject of 1949 presidential address of American Goiter Association, 967*
PNEUMOTHORAX following thyroidectomy, 987*
POLYETHYLENE GLYCOL wax, nontoxic vehicle for intraoral tablets of DOCA, 1324*
PORPHYRIA simulating anorexia nervosa, 683†
POSTERIOR PITUITARY: *see* Pituitary, disorders and preparations
POSTGRADUATE ASSEMBLIES IN ENDOCRINOLOGY: *see* Association, post graduate assemblies; American Diabetes Association; Laurentian Hormone Conference; and University of California
POTASSIUM: *see also* Electrolytes
—— deficiency; a mechanism of, in alkalosis, 676†
—— deficiency, associated with diabetic acidosis, 397
—— hypokalemia; electrolyte and protein metabolism in, 691*
—— hypokalemic alkalosis in Cushing's syndrome; effect of potassium chloride and testosterone therapy on, 663†
—— hypotassemia in diabetic keto-acidosis, 673†
—— hypopotassemia; symptoms of, 1259*
POTASSIUM (cont.)
—— in serum; effects of therapy on in Addison's disease with diabetes, 403*
—— metabolism following ACTH intravenously, in man, 593*
—— metabolism, following single dose of DOCA, 660†
—— metabolism; the thyroid as a regulator of, 106
—— use of, in therapy, 691*
PRECOCIOUS PUBERTY: *see* Puberty, precocious
PREGNANCY: *see also* Breast; Estrogens; Fetus; Gonadotropins; Menstruation; Ovary; Pregnanediol; Progesterone; Sterility; Uterus
—— and labor; changes in leucocytes and circulating eosinophiles during, 714*
—— effect of, on ovary transplanted into spleen, in unilaterally castrate rats, 667†
—— increase of urinary gonadotropin in, by parenteral administration of chorionic gonadotropin, 268*
—— pseudocyesis; hormonal pattern in, 668†
—— renal clearance of chorionic gonadotropin in, 615*
—— serum precipitable iodine concentrations during, 299
—— serum protein-bound iodine increased in; possible cause, 768*
—— urinary prolactin, pre- and postpartum, 653†
—— urine; conjugated sulphates of estrogens in, 667†
COMPLICATIONS AND SEQUELAE
—— abortion; preventive treatment with chorionic gonadotropin, 268*
—— abortion, threatened; evaluation of the Guterman pregnanediol, test in, 110, 111
—— abortion, threatened; management with large doses of stilbestrol, 669†
—— as a factor in etiology of diabetes, 48*
—— complicated with thyrotoxicosis; treatment with thiouracil, 903*
—— eclampsia and pre-eclampsia; urinary corticosteroids in, 1436*
—— eclampsia; changes in eosinophiles in, 714*
—— edema of, and pre-eclampsia; cortical steroid excretion in, 319*
—— fetal death; test for, 402
—— in Addison's disease; hormone and electrolyte metabolism, 514*
—— in the diabetic, 395
DIAGNOSIS (Tests)
—— Galli Mainini's test; care of toads

PREGNANCY (cont.)
DIAGNOSIS (Tests) (cont.)
and frogs for, 1372*; results with, 1372*, 400
—— pregnanediol, *see also* Pregnanediol
—— pregnanediol excretion as a test for, 852*, 110, 111, 399, 479
—— pregnanediol excretion in cases of blighted ovum, 676†
—— pregnanediol precipitation test; further observations; comparison with Friedman test, 234*
—— sperm release in frogs; hormonal factors involved, and comparison with ovarian hyperemia test, 668†
—— test, using the male batrachia, 1372*, 668†, 399, 400
—— two-hour test, based on rat ovary hyperemia, 479
PREGNANEDIOL: *see also* Estrogens; Progesterone; Pregnancy
IN URINE
—— as a test of pregnancy, 852*
—— effect of alpha-tocopherol on, in normal and in sterile women, 743*
—— Guterman test for; evaluation of, 110, 111
—— in cases of blighted ovum, 676†
—— new colorimetric method for the determination of, 399
—— precipitation test; further observations, 234*
—— simplified technique for quantitative colorimetric estimation of, 479
—— sodium, glucuronidate, in pregnant woman with Addison's disease, 514*
PREGNENOLONE: *see* Progesterone
PRESIDENTIAL addresses; *see* American Goiter Association
PROGESTERONE: *see also* Estrogens; Menstruation; Pregnancy; Steroids
—— and anhydrohydroxyprogesterone; comparison of oral, sublingual and intramuscular routes of administration, 736*
—— effect on metabolism of estrogen, 557*
—— pregnanediol, *see* Pregnanediol
—— pregnenolone, in treatment of male infertility, 480
—— therapy (i.m. and pellets) of human uterine leiomyomas, 1273*
—— withdrawal test, in amenorrhea, 110
PROGRAMS: *see* Association; American Diabetes Association; American Goiter Association; Laurentian Hormone Conference
PROLACTIN: *see* Breast; Pituitary preparations and compounds; Gonadotropins
PROPIONIC ACID: *see also* Androgens and Estrogens (propionates)
—— phenyl diiodohydroxy phenyl; in study of organic *vs.* inorganic iodine, 1080*
PROPYLTHIOURACIL: *see* Thiouracil
PROSTATE AND SEMINAL VESICLES: *see also* Androgens; Gonadotropins; Testes
—— carcinoma and adenoma of; urinary 17-ketosteroids in, 400
—— response of seminal vesicles and coagulating glands to testosterone, in mice; effect of crude folic acid antagonists on, 674†
PROTAMINE-ZINC INSULIN: *see* Insulin
PROTEIN: *see also* Blood; Creatinine; Muscle; Nitrogen; Uric Acid; Urine, and under various endocrine glands
—— albumin of serum; relation to precipitable iodine in, 107
—— catabolism in diabetes mellitus with thyrotoxicosis; effect of testosterone on, 671†
—— low-protein diet malnutrition in the rat; adequacy of ACTH function in, 656†
—— metabolic abnormality of, in Cushing's syndrome; study by S^{35}-labeled-methionine, 662†
—— of diet; effect on ability of liver to inactivate estradiol in the rat, 675†
—— of serum, in tumors at or near the pituitary, 1292*
——protein-bound iodine of serum; *see* Blood, iodine
—— proteolytic activity, in the study of the thyroid gland, 298
PSEUDOCYESIS, hormonal pattern in, 668†
PSEUDOHERMAPHRODISM: *see* Hermaphrodism; Adrenals; Ovary; Testis
PSEUDOHYPOPARATHYROIDISM, 862*, 665†
PSYCHONEUROSIS: *see also* Brain; Emotion; Mental; Nervous system
—— versus hyperthyroidism: differential diagnosis of; by basal metabolism testing under pentothal anesthesia, 1190*; by antithyroid drugs, 1054*
PTEROYLGLUTAMIC ACID: *see* Vitamins, folic acid
PUBERTY: *see also* Adrenals; Growth; Ovary; Testis; Virilism
—— physical growth during adolescence, 400
PRECOCIOUS
—— role of adrenal cortex in, 674†
—— unusual case of, associated with ovarian dysgerminoma (hormone

PUBERTY (cont.)
PRECOCIOUS (cont.)
assays), 1349*
—— urinary prolactin in, 653†
PULMONARY CLEARANCE of radioactive iodine, 1080*
PYRIBENZAMINE: *see* Antihistaminic drugs

RADIOACTIVE
—— bromine compounds (dibromestrone) 112
—— carbon, in study of diabetes, 1238*
—— estrogens (dibromestrone), 112
—— iodine, *see* Iodine, radioactive
—— sulphur, *see* Sulphur
—— thyroglobulin and thyroxine, *see* Thyroid, preparations
RADIOAUTOGRAPHY: see Iodine, radioactive
RADIOIODINE: *see* Iodine, radioactive
REACTIONS:
—— chemical; *see* Methods; Tests
—— to drugs, *see* Allergy; Iodine, radioactive; Thiouracil; and under various glandular preparations
RECIPIENTS, of Awards and Fellowships, *see* Association, Awards; and American Goiter Association
RENAL: see Kidney
REPRODUCTION: *see* Menstruation; Ovary; Pregnancy; Sterility; Testis
RESEARCH FELLOWSHIPS: *see* Awards
REVIEWS, endocrine, 171*, 557*
RHEUMATISM: *see* Arthritis
ROENTGEN RAYS
—— contrast radiography of uterus, before and after progesterone therapy for uterine leiomyoma, 1273*
—— effect of, on urinary 17-ketosteroids, in ankylosing spondylarthritis, 79*
—— in therapy of lymphosarcoma of thyroid, 1043*
—— in therapy of thyroid cancer, 1023*
—— in thyroid therapy; appearance of Hürthle cells following, 874*
—— in treatment of acromegaly, 126*
—— in treatment of hyperthyroidism; effect on radioiodine uptake, 342*
—— therapy; question of necessity in nonencapsulated sclerosing thyroid tumors, 1216*
ROSTER OF THE ASSOCIATION, request: *see* Association, roster
RUTABAGA ROOT; goitrogen (thiooxazolidone) in, 1069*

SALINE: *see* Sodium, chloride
SALT: *see* Sodium, chloride
SCHERING FELLOWSHIP: *see* Association, Awards
SCOTTISH diabetic clinic; survey of, 48*
SEMEN: *see* Prostate; Testis, spermatozoa
SEMINAL VESICLES: see Prostate; Testis
SEPSIS: *see* Infection
SERTOLI CELL TUMORS: see Ovary, tumors; Testis
SERUM: *see* Blood
SEX: *see also:* Breast; Climacteric, Hermaphrodism; Menstruation; Ovary; Pregnancy; Prostate; Testis; Uterus
—— difference in rate of radioiodide uptake, 430*
—— difference in secretory control and function of pituitary, 654†
—— difference in urate metabolism, 749*, 666†
—— effect on urinary excretion of 17-ketosteroids, 426*
—— hormones, *see* Androgens; Estrogens; Gonadotropins; Progesterone; Steroids
—— in relation to type of tissue replacement in hyperplastic thyroid gland, 1202*
—— incidence in diabetes mellitus, 48*
—— sexual precocity, *see* Adrenals, disorders; Puberty, precocious
SHOCK: *see also* Insulin; Stress
—— electrically induced; changes in eosinophiles after, 440*
—— electrically induced; changes in urinary uric acid-creatinine ratio after, 548*
—— from posterior pituitary extract, 106
—— insulin; in therapy, *see* Insulin
SKIN: *see also* under various endocrine disorders
—— localized, solid edema, in association with exophthalmic goiter; biopsy, 883*
—— nevi, abundant; associated with rudimentary testes, dwarfism and congenital malformations, 1333*
—— nodules in pseudohypoparathyroidism, 862*
—— pigmentation, *see* Addison's disease
—— tophi of gout, 749*
SMEARS: *see also* Climacteric: Menstruation
—— urethral, in the female; relation to smears of urinary sediment; effect of estrogens on, 1362*
—— vaginal, *see* Vagina
SODIUM: *see also* Chloride; Electrolytes; and various endocrine glands
—— and chloride excretion; relative independence of, 368*
—— chloride, hypertonic; renal excretion of, in Cushing's syndrome, 13*

SODIUM (cont.)
—— citrate, in treatment of hypercalcemic syndrome, 1*
—— deprivation; changes in urinary steroids following, 661†
—— determination of, in biologic fluids; rapid colorimetric method for, 95*
—— in serum, increased in diabetic ketoacidosis, 1245*
—— metabolism following ACTH intravenously, in man, 593*
—— retention following single dose of DOCA, 660†
—— saline administration; renal function in normal and adrenalectomized rats following, 658†
—— salts; effect of treatment with, in hypokalemia, 691*
—— salts in the potentiation of the hypertensive effects of DOCA, 109
SPERMATOZOA: *see* Testis, spermatozoa
SPLEEN
—— enlarged in corticoadrenal tumor, with goiter and gynecomastia, 255*
—— ovary transplanted into; effect of castration and pregnancy on, in rats, 667†
SPONDYLARTHRITIS: *see* Arthritis
SQUIBB AWARD: *see* Association, awards
STERILITY: *see also* Menstruation; Pregnancy; Ovary; Testis
—— basal temperature in sterile women, 110
—— blighted ovum; pregnanediol excretion in patients with, 676†
—— causes of, in West African Negroes, 111
—— development of spermatogenesis in hypogonadism, 1245*
—— effect of alpha-tocopherol on pregnanediol excretion in, 743*
—— effects of small doses of testosterone propionate on spermatogenesis, 666†
—— fertility of male gout patients, 497*
—— impotence in paraplegic males with gynecomastia, 457*
—— in the female; facts and fantasy in the study of, 112
—— in the male; treatment with pregnenolone, 480
—— infertile men; antihormones complicating treatment of, 213*
—— infertile men; effect of pituitary antihormone on sperm, testis and urinary gonadotropins in, 355*
—— spermatogenesis following treatment for eunuchoidism, 163*
STEROIDS
—— adrenal, *see also* Adrenals, preparations and compounds
STEROIDS (cont.)
—— androgens, *see also* Androgens
—— corticoids, urinary, 659†
—— corticosteroids, corticoids, cortin, *see also* Adrenals, preparations and compounds
—— determination of, *see also* Methods
—— estrogens, *see* Estrogens
—— hormones, allergy to, 681†
—— neutral lipid-reducing; effect of ACTH intravenously on, in man, 593*
—— neutral lipid-soluble reducing substances; excretion of, by infants, 646*
—— 11-oxysteroids; effect of Compound E on, in Addison's disease, 660†
—— 11-oxysteroids; effect of testosterone with ACTH on, in Cushing's syndrome 663†
—— progesterone, *see* Progesterone
—— reducing, in urine, in Cushing's syndrome, 663†
—— "steroid diabetes," in Cushing's syndrome; 11-oxysteroids and Compound F in, 672†
—— urinary; relation to growth of axillary hair, 665†
17-KETOSTEROIDS (URINARY)
—— during estrus cycle in normal female rats; effect of ovariectomy, and of adrenalectomy, 795*
—— effect of a single injection of ACTH on, in normal subjects and in those with Addison's disease and with pituitary tumor, 661†
—— effect of Compound E on, in Addison's disease, 660†
—— effect of heat, cold and exercise stress on, in men, 529†
—— effect of roentgenotherapy on, in ankylosing spondylarthritis, 79*
—— effect of testosterone with ACTH on, in Cushing's syndrome, 663†
—— following ACTH intravenously in man, 593*
—— following salt deprivation and administration of DOCA, 661†
—— in Addison's disease, 1324*
—— in Cushing's syndrome; comparison of, in adrenal tumor *vs.* hyperplasia, 680†
—— in gout, 497*, 666†
—— in idiopathic hirsutism, 795*
—— in idiopathic hyperuricemia, and in rheumatoid arthritis or spondylitis, 497*
—— in male dog with feminizing testicular tumor, 579*
—— in male hypogonadism; effect of testosterone on, 1245*

STEROIDS (cont.)
17-KETOSTEROIDS (URINARY) (cont.)
—— in masculinizing tumor of ovary, 774*
—— in men with tumors at or near the pituitary, 1292*
—— in normal men, and in eunuchoid men during sex hormone therapy, 113*
—— in porphyria, 683†
—— in precocious puberty associated with ovarian dysgerminoma, 1349*
—— in pregnant women with Addison's disease, 514*
—— in prostatic carcinoma and adenoma, 400
—— in relation to metabolism of circulating testosterone, 665†
—— in testicular chorioma, 615*
—— in Turner's syndrome in a male, 1333*
—— in uterine leiomyoma; effect of progesterone therapy, 1273*
—— in virilizing Leydig cell tumor of ovary, 486*
—— normal values in relation to age and sex, 426*
STILBESTROL: *see* Estrogens
STRESS: *see also* Mental disease
—— effect on adrenals and on ACTH of pituitary in rats, 656†
—— effect on liver fat, in mice, 657†
—— emotional; role of, in survival of treated adrenalectomized rats, 678†
—— heat, cold, and exercise; hormonal alterations in men exposed to; effect of ACTH on, 529*
—— major surgery; effect on adrenal cortical activity, 662†
—— response of white blood cells to, 678*, 714*
SUBJECT INDEX to Volume 9 (1949), 1455
SUGAR: *see* Blood, sugar; Carbohydrate metabolism; Diabetes mellitus; Insulin; Adrenals, preparations and compounds
SULPHUR: *see also* Protein; Thiouracil
—— conjugated sulphates of estrogens, in human pregnancy urine; use of phenolsulphatase in analysis, 667†
—— radioactive; in study of metabolism and tissue distribution of, in rat, 664†
—— S^{35}-labeled-methionine; in study of protein metabolic abnormality of Cushing's syndrome, 662†
SUPRARENALS: *see* Adrenals
SYMPATHICOTROPIC (LEYDIG) CELL tumor of ovary, with virilism, 486*
SYNDROME
—— adrenogenital, *see* Adrenals
SYNDROME (cont.)
—— Cushing's; *see* Cushing's syndrome
—— Fröhlich's, *see* associated with Ovary, Testis, and Pituitary, disorders
—— hypercalcemic, associated with androgenic and estrogenic therapy, 1*
—— hypoglycemic, with corticoadrenal tumor, 255*
—— menopausal, *see* Climacteric
—— Turner's in a male, 1333*

TADPOLE, stasis, in the assay of thyroxine and TSH in normal and pathologic serum, 653†
TEMPERATURE
—— heat; hormonal alterations in men, exposed to; effect of ACTH, 529*
BASAL BODY
—— correlation with excretion of pregnanediol, 234*
—— correlation with pregnanediol excretion; effect of alpha-tocopherol, 743*
—— during ovarian cycle, 714*
—— in sterile women, 110
—— relation to serum protein-bound iodine, during normal menstrual cycle, 768*
TESTIS: *see also* Androgens; Gonadotropins; Hermaphrodism; Prostate; Sterility
—— estrogen production by, 579*
—— evidence for second hormone of, 113*, 579*
—— interrelationship with pituitary, 113*
—— Leydig cell tumor of ovary, with virilism, 486*
—— normal males; differentiation of urinary gonadotropins in, 636*
—— normal men; 17-ketosteroid excretion in, 426*
—— tissue slices; ability to synthesize testosterone from androstenedione-3, 17, in vitro, 674†
DISORDERS
—— chorioma of; renal clearance of chorionic gonadotropin in, 615*
—— estrogen-producing Sertoli cell tumors of, (androblastoma tubulare lipoides), 301*
—— feminizing Sertoli cell tumor of, in male dog, 579*
—— precocious puberty, *see* Puberty, precocious
—— pseudohermaphrodism; *see* Hermaphrodism
Hypogonadism (includes eunuchism, eunuchoidism, Fröhlich's syndrome, etc.), *see also* Pituitary, disorders
—— castrated rats; androgenic acti-

TESTIS (cont.)
DISORDERS (cont.)
Hypogonadism (cont.)
vity of new esters of testosterone in, 679†
—— cellular structure of testis in Turner's syndrome and in hypophyseal dwarfism, 1333*
—— eunuchoidism; development of spermatogenesis in, 1245*
—— eunuchoidism; inability of testosterone to reduce urinary gonadotropin in, 113*
—— eunuchoidism with pituitary tumor; effect of androgen therapy, 372*
—— infertile men; antihormone formation complicating treatment of, 213*
—— infertile men; effect of pituitary antihormone on sperm, testis and urinary gonadotropins in, 355*
—— paraplegic males with gynecomastia; testis in, 457*
—— rudimentary testes, delayed growth, and congenital malformations (Turner's syndrome in a male), 1333*
—— spermatogenesis in, following treatment; coincidental neoplasm, 163*
—— *therapy, see* Androgens; Gonadotropins
PREPARATIONS AND COMPOUNDS: *see* Androgens; Steroids
SPERMATOZOA; *see also* Sterility
—— almost completely suppressed in case of adrenal cortical carcinoma, 451*
—— arrested development, in case of Addison's disease and diabetes mellitus, 403*
—— detachment from toad or frog, in test for pregnancy, 1372*, 399, 400
—— development of spermatogenesis in hypogonadism, 1245*
—— effect of pituitary antihormone on sperm, in infertile men, 355*
—— effect of pregnenolone therapy on, in infertility, 480
—— effect of small doses of testosterone propionate on, 666†
—— in paraplegic males with gynecomastia, 457*
—— sperm release in frog; hormonal factors involved in, 668†
—— sperm release in toad; used to differentiate gonadotropins, 297
—— spermatogenesis following treatment for eunuchoidism, 163*
TESTOSTERONE and compounds: *see* Androgens; Steroids
TESTS: *see also* Blood; Methods; Pregnancy, tests; and under specific substances and diseases
—— Aschheim-Zondek, in precocious puberty associated with ovarian dysgerminoma, 1349*
—— for pregnancy, *see* Pregnancy, diagnosis (tests)
—— for threatened abortion, *see* Pregnancy, tests
—— Friedman; in adrenal cortical carcarcinoma in a male, 451*
—— Friedman; in masculinizing tumor of ovary, 774*
—— Guterman test, *see* Pregnanediol
—— insulin tolerance, *see* Insulin
—— ovarian hyperemia test for gonadotropins, 636*, 654†, 479
—— pregnanediol precipitation, *see* Pregnanediol; Pregnancy, tests
—— sugar tolerance, *see* Blood sugar
—— uterine weight test for gonadotropins, 636*, 654†
TETANY: *see* Calcium; Parathyroids; Thyroid
TETRABROMTHYRONINE, effect in myxedema and in hyperthyroidism, 1099*
TETRACHLORTHYRONINE, effect in myxedema, 1099*
THIOCYANATE goiter, with myxedema, 446*
THIOCYTOSINE, as a goitrogen, 801*
THIOOXAZOLIDONE; a naturally occurring goitrogen; relation to pathogenesis of simple goiter, 1069*
THIOURACIL: *see also* Antithyroid drugs; Iodine; Thyroid
—— action of antithyroid drugs, studied by radioiodine, 171*
—— effect on uptake of radioactive iodine in the rat, 1080*
—— Hürthle cells in thyroid, consequent to treatment with, 874*
—— in the restoration of thyrotropic activity of iodinated pituitary extract, in guinea pigs, 927*
—— preoperatively; favorable and unfavorable effects, 999*
—— therapy in pheochromocytoma with excessive hypermetabolism, 782*
—— treated mice; response to stress, 657†
—— treated rats; effects of thyroxine, and tetrabrom- and tetrachlorthyronine in, 1107*
—— treated rats; thyroxine analogues tested in, 937*

THIOURACIL (cont.)
COMPOUNDS
—— and propylthiouracil; effect of prolonged treatment with, on collection of radioiodine by metastatic cancer of the thyroid, 1138*
—— and propylthiouracil, in treatment of hyperthyroidism, 1232*
—— and propylthiouracil in treatment of postoperative hyperthyroidism, 1054*
—— and propylthiouracil, in treatment of thyrotoxicosis complicating pregnancy, 903*
—— correlation of chemical structure and antithyroid effect of, 107
—— in treatment of thyrotoxicosis, 300
—— iodinated thiouracils; thiocytosine, and 2 (acetic acid) propylthiouracil; antithyroid action of, 801*
—— propylthiouracil; effect on blood cholesterol and arterial intima in the rat, 106
—— propylthiouracil in the treatment of hyperthyroidism, 330*, 107, 297
—— propylthiouracil therapy; effect on radioiodine uptake, 342*
—— propylthiouracil; toxic reactions to, 330*
—— propylthiouracil; treatment of angina pectoris with, 106
—— thiocyanate goiter, *see* Thiocyanate
—— thiourea; metabolism and tissue distribution of, in rat, measured with radioactive sulphur, 664†
THIOUREA: *see* Thiouracil; Thyroid
THYMUS: *see* Lymphocytes; Lymphoid tissue
THYROID: *see also* Antithyroid drugs; Eyes; Iodine; Thiouracil
DISORDERS
—— a review, 974*
—— diagnosis; substitution of thyroid radioiodine uptake for BMR, in routine clinical practice, 664†
—— endemic goiter in Yunnan province, 684†
—— goiter; effects of thyroxine, tetrabrom- and tetrachlorthyronine on development of, in rats receiving thiouracil, 1107*
—— goiter, with corticoadrenal tumor, gynecomastia and hepatosplenomegaly, 255*
—— Hashimoto's disease and exhaustion atrophy; significance of cellular involution of thyroid in, 874*
—— Hashimoto's disease; chronic thyroiditis, 980*
THYROID (cont.)
DISORDERS (cont.)
—— Hashimoto's thyroiditis; Delphian lymph node in, 1012*
—— lateral aberrant thyroid tumors in differential diagnosis of malignancy, 1031*
—— lymphosarcoma, 1043*
—— nodules; preoperative estimation of function of, by radioautography (method), 1171*
—— nonencapsulated sclerosing tumors; nature of, 1216*
—— nontoxic nodular goiter; incidence of cancer in, 1007*, 1012*
—— simple goiter; dietary factors (thiooxazolidone) in pathogenesis of, 1069*
—— sporadic goiters; treatment with bismuth salts, 462*
—— study and treatment with radioiodine 171*, 342*
—— thyroidectomy in the treatment of toxic and nontoxic goiter; operative mortality, 1232*
—— thyroidectomy; mediastinal emphysema and pneumothorax following, 987*
—— thyroidectomy used to induce uptake of radioiodine by metastases from thyroid cancer, 1122*, 1138*
—— thyroiditis; statistical study, 1202*
Cancer—Carcinoma
—— adenocarcinoma, metastatic; distribution of radioiodine in a patient with, (necropsy), 1379*
—— degrees of malignancy, 1031*
—— destruction of metastases from, by treatment with radioiodine, 1122*, 1138*
—— diagnosis; Delphian lymph nodes an early sign, 1012*
—— function of various types of, studied by radioautography, 1153*, 1171*
—— Hürthle cell carcinomas, 1023*, 1153*
—— incidence of, in nodular goiter, 1007*, 1012*, 1171*
—— natural history of; review of 301 cases, 1023*
—— radioiodine in serum, urine and expired air in, 1080*
—— study of functional capacity, by means of radioiodine, 1012*, 1122*
—— study of, with radioiodine, 171*, 342*, *see also* Iodine, radioactive
—— surgical treatment of, 1422*

THYROID (cont.)
DISORDERS (cont.)
Cancer—Carcinoma (cont.)
—— treatment, *see also* Iodine, radioactive
Hyperthyroidism (exophthalmic goiter, Graves' disease, thyrotoxicosis, toxic adenoma)
—— and acromegaly, 126*
—— and diabetes mellitus; effect of testosterone on products of fat and protein catabolism in, 671†
—— and malignant exophthalmos; studied by radioiodine, 342*
—— cellular involution of thyroid in, 874*
—— clinical significance of lymphocytic and fibrocytic replacements in hyperplastic thyroid; effect of age and sex, 1202*
—— complicating pregnancy; treatment with goitrogens, 903*
—— crisis of, following surgical removal of metastasis of thyroid cancer to bone, 1122*
—— differential diagnosis with basal metabolism testing under pentothal anesthesia, 1190*
—— effect of cessation of lactation and return of menstruation on, 330*
—— exophthalmos, *see also* Eyes
—— following treatment with large doses of radioiodine for thyroid cancer, 1138*
—— hyperfunction of thyroid nodules studied by radioautography, 1171*
—— in young dissimilar twins, 298
—— mild, in early stages of Hashimoto's disease, 980*
—— myxedema circumscriptum thyrotoxicum, 883*
—— nonencapsulated sclerosing tumor of thyroid associated with, 1216*
—— thirty-five years' experience with, 974*
—— thyroid I^{131} and I^{127} collection in; influence of iodide ion and of antithyroid drugs on, 941*
—— thyroid-stimulating hormone (TSH) and thyroxine in serum, 653†
—— thyroid-stimulating, or thyrotropic hormone (TSH) in, *see also* Pituitary, preparations and compounds
—— thyrotoxicosis factitia, 377*, 1432*
—— thyrotoxicosis; incidence in diabetes mellitus, 48*

THYROID (cont.)
DISORDERS (cont.)
Hyperthyroidism (cont.)
—— thyrotoxicosis; myogram in, 401
—— toxic nodular and diffuse goiter; incidence of cancer in, 1007*, 1012*
—— urinary excretion of radioiodine in, 171*, 299, *see also* Iodine, radioactive
—— width of adrenal cortex in, 158*
Therapy, see also Antithyroid drugs; Iodine; Thiouracil
—— antithyroid drugs in treatment of postoperative hyperthyroidism, 1054*
—— evaluation of current methods of treatment, 1232*, 299, 300
—— mediastinal emphysema and pneumothorax following thyroidectomy for, 987*
—— surgery the most satisfactory method of treatment; favorable and unfavorable effects of preoperative antithyroid drugs, 999*
—— total thyroidectomy, 1048*
—— with bismuth salts, 462*
—— with iodinated thiouracils, and thiocytosine, 801*
—— with iodine, *see* Iodine
—— with propylthiouracil, 330*, 107, 297 (*see also* Thiouracil compounds)
—— with radioactive iodine, 29*, 171*, 298 (*see also* Iodine, radioactive)
——with roentgen rays, *see* Roentgen rays
——with tetrabromthyronine, 1099*
—— with thiouracil and compounds, *see* Thiouracil
Hypothyroidism
—— behavior of labeled iodocasein in; treatment with iodocasein, 828*
—— behavior of labeled thyroglobulin and thyroxine in, 1392*
—— differential diagnosis *vs.* tumors at or near the pituitary, 1292*
—— distribution and fate of oral and i.v. radioactive racemic thyroxine in, 1406*
—— effect of antithyroid drugs, *see* Antithyroid drugs; Thiouracil
—— effect of *d*-thyroxine and tetrabrom- and tetrachlorthyronine in, 1099*
—— following radioiodine therapy for metastases of thyroid car-

THYROID (cont.)
DISORDERS (cont.)
Hypothyroidism (cont.)
cinoma 1122*, 1138* (*see also* Iodine, radioactive)
—— following surgical treatment of hyperthyroidism; 999*, 299; effect of antithyroid drugs on incidence, 999* (*see also* Thyroid, disorders, hyperthyroidism)
—— following total and subtotal thyroidectomy for Hashimoto's disease, 980*
—— following total thyroidectomy for toxic goiter, 1048*
—— following treatment of hyperthyroidism with radioiodine, 29*, 171*, 1232* (*see also* Iodine, radioactive)
—— myxedema circumscriptum thyrotoxicum, 883*
—— relation to type of parenchymal replacement in hyperplastic thyroid gland, 1202*
—— significance of Hürthle cells in thyroid in, 874*
—— studied by radioiodine, 342*
—— *therapy*, with thyroid compounds, *see* Thyroid preparations and compounds
—— thirty-five years' experience with, 974*
—— thyroid collection of I^{131}, and serum PBI in, 430*
—— TSH and thyroxine in serum, 653†
—— urinary excretion of radioiodine in, 171* (*see also* Iodine, radioactive)
—— utero-tubal persufflation curve in, 285*
—— with goiter, following thiocyanate therapy, 446*
PHYSIOLOGY AND PATHOLOGY
—— activity during heat and cold stress, in men, 529*
—— as a regulator of potassium metabolism, 106
—— cellular involution in, in various states, 874*
—— clinical significance of lymphocytic and fibrocytic replacements in hyperplastic thyroid gland, 1202*
—— clinical *vs.* pathologic findings in thyroid cancer, 1031*, 1043*, 1047*
—— clinicopathologic studies, *see* Thyroid, disorders
—— effect of radioiodine on structure of thyroid and surrounding tissues, 29*

THYROID (cont.)
PHYSIOLOGY AND PATHOLOGY (cont.)
—— function in man, studied by radioiodine, 342*
—— function; relation to adrenal function, studied by radioiodine, 659†
—— function; studies of, *see also* Iodine, radioactive
—— *hormone*, *see also* Thyroid, preparations
—— hormone; peripheral utilization of; possible influence of sex hormones upon, 430*
—— mechanism of thyroid hormone secretion visualized by radioiodine, 149*
—— metabolism of the thyroid hormone, studied by radioactive thyroid compounds, 1392*, 1406*
—— pathology of thyroid cancer, 1422*
—— possible involvement in mobilization of fat to liver, in the mouse, 657†
—— proteolytic activity in the study of the thyroid gland, 298
—— radioautography in the study of, *see* Iodine, radioactive
—— research; present day trends in, 300
—— significance of colloid relative to concentration of radioiodine in, 1153*
—— thyroidectomized guinea pigs; effect of various doses of pituitary extract on production of exophthalmos, and mobilization of fat in, 913*
—— thyroid-pituitary apparatus as a servo(feed-back) mechanism, 1429*
—— *thyrotropic hormone* (*thyroid-stimulating, TSH*): *see* Pituitary, preparations
—— total iodine accumulation and clearance in, in euthyroidism and hyperthyroidism; effect of iodide on, 941*
—— uptake of radioactive sulphur, by in the rat, 664†
—— weight and iodine content of; effects of thyroxine and tetrabrom- and tetrachiorthyronine on, 1107*
PREPARATIONS AND COMPOUNDS
—— desiccated thyroid; effect on amino acid oxidase activity in the rat, 684†
—— desiccated thyroid; effect on radioiodine uptake of thyroid gland, 342*
—— desiccated thyroid; effect on utero-tubal persufflation curve in myxedema, 285*
—— desiccated thyroid ingestion, causing thyrotoxicosis factitia, 377*; 1432*

THYROID (cont.)
PREPARATIONS AND COMPOUNDS (cont.)
—— globulin; absorption and clinical effect of a large single dose, 377*
—— hormone; direct estimation of rate of formation of, in man, 941*
—— hormone; mechanism of secretion visualized by radioiodine, 149*
—— hormone; study of hormonal *vs.* "spurious" protein-bound iodine of serum, 1080*
—— hormone; synthesis, studied by radioiodine, 171*
—— labeled thyroglobulin and thyroxine; behavior of in myxedema, 1392*
—— physiologic activity of thyroxine and analogues, tetrabrom- and tetrachlorthyronine, 1099*, 1107*
—— radioactive racemic thyroxine, given orally and i.v.; distribution and fate in myxedema, 1406*
—— thyroid therapy in some mental disorders, 298
—— thyroxine analogues; thyroxine-like and antithyroxine activity of, 937*
—— thyroxine in normal and pathologic sera, assayed by the stasis tadpole, 653†
—— thyroid preparations, with diet, in the prolonged medical treatment of obesity; toxicity, 275*
THYROIDECTOMY: *see* Thyroid
THYROIDITIS: *see* Thyroid disorders
THYROIDOLOGIST, confessions of, 974*
THYROID-STIMULATING HORMONE (TSH): *see* Pituitary, preparations
THYRONINE, and compounds; thyroxine-like and antithyroxine activity of, 937*
THYROTOXICOSIS: *see* Thyroid, disorders, hyperthyroidism
THYROTROPIC HORMONE (TSH): *see* Pituitary, preparations, thyrotropic hormone
THYROXINE: *see* Thyroid, preparations and compounds
TIME factor in weight reduction, 275*
TISSUES: *see also* under various organs
—— calcification of; extensive, in pseudohypoparathyroidism, 862*
—— distribution of circulating testosterone in, 665†
—— distribution of radioiodine in, after injection into rats, 1080*
—— distribution of radioiodine in at necropsy, fifty-six hours after oral ingestion by man with thyroid cancer, 1379*
—— fibrocytic replacements in hyperplastic thyroid; statistical study of clinical significance, 1202*
—— fibrous; leimyomas of uterus; progesterone therapy of, 1273*
TOAD: *see also* Gonadotropins; Pregnancy, tests
—— care and maintenance of, for pregnancy test, 1372*
TOCOPHEROL: *see* Vitamins, E
TOXIC ADENOMA: TOXIC GOITER: *see* Thyroid, disorders, hyperthyroidism
TOXIC EFFECTS: *see also* Iodine, radioactive; Thiouracil; and preparations involved
——allergies, *see* Allergy
—— from therapy with radioiodine, 1138*
—— granulopenia during propylthiouracil therapy, 330*
TRANSPLANTATION of ovary into spleen; effect of castration and pregnancy on, in rats, 667†
TRAUMA: *see also* Stress
—— surgical; effect on circulating eosinophiles, 714*
TSH: *see* Pituitary, preparations, thyrotropic hormone
TUMORS: *see also* Cancer; and under organ or form of treatment involved
—— adrenal, *see* Adrenal, disorders; and Cushing's syndrome
—— androblastoma tubulare lipoides, *see* Ovary; and Testis
—— chromophobe adenoma, *see* Pituitary, disorders
—— craniopharyngioma, *see* Pituitary, disorders
—— dysgerminoma, *see* Ovary, disorders
—— feminizing, *see* Adrenals; Breast, gynecomastia; Hermaphrodism; Ovary; Testis
—— function of, studied by radioiodine, *see* Iodine, radioactive
—— goiter, *see* Thyroid
—— histopathology; study of, *see* Iodine, radioactive; and under various endocrine disorders
—— leiomyoma, *see* Uterus
—— Leydig cell, *see* Ovary; Testis
—— masculinizing, *see* Tumors, virilizing
—— pheochromocytoma, *see* Adrenals, tumors
—— Sertoli cell, *see* Ovary; Testis
—— virilizing, *see* Adrenals, Cushing's syndrome; Hermaphrodism; Ovary; Testis; Puberty, precocious; Virilism
THERAPY
— with hormones *see* Androgens; Estrogens; Progesterone; or other preparation concerned

TUMORS (cont.)
THERAPY (cont.)
—— with radioactive iodine; *see* Iodine, radioactive
—— with roentgen rays, *see* Roentgen rays
TURNER'S SYNDROME in a male, 1333*
TURNIP; goitrogen (thiooxazolidone) in, 1069*
TWINS, young, dissimilar; hyperthyroidism, in, 298

UNIVERSITY OF CALIFORNIA Medical School; postgraduate course in endocrinology; announcement of, 472*
UNIVERSITY OF GEORGIA; course in medical illustration, 295
URATE: *see* Uric acid
UREA: *see* Blood; Nitrogen; Protein; Thiourea
URETHAL smears in the female; relation to smears of urinary sediment; effect of estrogens on, 1362*
URIC ACID: *see also* Creatinine; Nitrogen; Protein
—— creatinine ratio, urinary; after shock therapy, 548*
—— creatinine ratio, urinary; in men exposed to heat and cold, 529*
—— excretion; effect of ACTH on, 109
—— in serum and urine, following ACTH intravenously, 593*
—— of serum; in gout, and in idiopathic hyperuricemia, 497*
—— transport and excretion of, in man; sex difference in urate metabolism, 749*
—— urate metabolism in children and in gout, 666†
—— urate metabolism in gout and hyperuricemia, 749*
URINE: *see* also Kidney
—— chemistry of: *see* Methods; Tests; and Urine, constituents
—— effects of administration of various substances on, in health and disease, *see* specific substance used
—— in disease, *see* specific disease
—— pregnancy tests, *see* Pregnancy, diagnosis (tests)
—— renal function, *see* Kidney
CONSTITUENTS
Cellular
—— sediment; smear of, in female; relation to urethral smears, and effect of estrogen on, 1362*
Chemical
—— adrenal compounds, *see* Adrenals; Addision's disease; Steroids

URINE (cont.)
CONSTITUENTS (cont.)
Chemical (cont.)
—— androgens; *see* Androgens; Steroids
—— antidiuretic nonchloruretic substance extracted from urine of normal and cirrhotic subjects, 652†
—— calcium, *see* Calcium; Electrolytes; Parathyroids
—— chloride, *see* Chloride; Electrolytes; Sodium; Addison's disease
—— chorionic gonadotropin, *see* Gonadotropins, in urine; Pregnancy
—— Compound F, *see* Adrenals, compounds
—— corticosteroids (corticoids, cortin, etc), *see* Addison's disease; Adrenals; Steroids
—— creatinine, *see* Creatinine; Nitrogen; Uric acid
—— electrolytes, *see* Electrolytes
—— estrogens (estradiol, estrone, etc.), *see* Estrogens, in urine; Steroids
—— FSH: *see* Gonadotropins, in urine
—— gonadotropins, *see* Gonadotropins, in urine; Pituitary; Pregnancy
—— insulin, *see* Insulin
—— iodine, radioactive, *see* Iodine, radioactive
—— 17-ketosteroids, *see* Steroids
—— lipids, *see* Lipids
—— *methods* for determination of constituents, *see* Methods; Tests
—— nitrogen, *see* Creatinine; Nitrogen; Protein; Uric acid
—— oxysteroids, *see* Adrenals; Steroids
—— pituitary hormones, other than gonadotropins, *see* Pituitary, preparations
—— potassium, *see* Potassium; Electrolytes
—— pregnanediol, *see* Pregnanediol; Pregnancy; Progesterone
—— protein, *see* Nitrogen; Protein
—— radioactive compounds, *see* Radioactive
—— radioactive iodine, *see* Iodine, radioactive
—— sodium, *see* Sodium; Chloride; Electrolytes; Addison's disease
—— steroids, *see* Steroids
—— sugar, *see* Carbohydrate metabolism; Diabetes mellitus; Insulin; Addison's disease; Adrenals
—— uric acid, *see* Uric acid; Nitrogen

UTERUS: *see also* Breast; Climacteric; Estrogens; Menstruation; Ovary; Pregnancy; Vagina
—— abortion, *see* Pregnancy
—— carcinoma of; testosterone propionate therapy in, 401
—— hydatidiform mole; renal clearance of chorionic gonadotropin in, 615*
—— labor, *see* Pregnancy
—— leiomyomas of; progesterone therapy, studied by roentgenograms and endometrial biopsies, 1273*
—— menstruation; *see* Menstruation; Climacteric
—— placenta; chorionic gonadotropin, *see* Gonadotropins
—— pregnancy, *see* Fetus; Pregnancy; Tests
—— uterine and tubal contractions, in study of female infertility, 112
—— uterine weight test (mouse) for total gonadotropins in urine, 636*, 654†
—— utero-tubal persufflation curve in myxedema, 285*
ENDOMETRIUM: *see also* Menstruation
—— adenomatous hyperplasia of, from granulosa cell tumor of ovary, 630*
—— atrophy of, following prolonged progesterone therapy of leiomyoma, 1273*
—— biopsy; correlation with vaginal smear, 673†
—— biopsy; in study of routes of administration of progesterone, 736*
—— blood flow in; action of intravenously injected sex and other hormones on, 111
—— endometriosis; fibromyomata; urinary prolactin in, 653†
—— in pseudocyesis, 668†

VAGINA: *see also* Climacteric; Estrogens; Menstruation; Ovary; Pregnancy; Progesterone; Uterus
SMEAR
—— correlation with endometrial biopsy, 673†
—— effect of therapy on, *see also* Estrogens; Gonadotropins; Progesterone
—— effects of various estrogens on, in menopausal women, 480†
—— glycogen in; limitations as index of estrogen activity, 1359*
—— human; used in the assay of estrogens, 725*
—— in menopause, *see* Climacteric
—— in ovarian dysfunction, *see* Menstruation; Ovary
—— relation to urethral smear, 1362*

VAGINA (cont.)
SMEAR (cont.)
—— unusual in virilizing Leydig cell tumor of ovary, 486*
VAN METER PRIZE AWARD: *see* American Goiter Association
VASCULAR SYSTEM: *see also* Blood; Heart
—— blood pressure, *see also* specific disease e.g., Addison's disease
—— blood pressure; relation to fluid intake; effect of DOCA on, in rats, 478
—— coarctation of aorta associated with abnormal digits, hypo-ovarianism and dwarfism, 622*
—— degenerative vascular lesions and diabetes mellitus, 394
—— vasomotor instability and hypertension; basal metabolism testing under pentothal anesthesia, in differential diagnosis of, 1190*
HYPERTENSION
—— associated with ovarian hypofunction, and other developmental abnormalities, 622*
—— effect of epinephrine antagonist in, 651†
—— essential; cortical steroid excretion, in, 319*
—— essential; eosinophiles, and plasma corticosteroids, CO_2, and CO_2/Cl ratio in, 677†
—— hypertensive effects of DOCA; potentiation by sodium salts, 109
—— in diabetes mellitus, 48*
—— in pheochromocytoma; effect of 933-F; benzodioxane, 651†, 108
—— in pheochromocytoma; effect of hyperventilation and of removal of tumor, 782*
—— relation to alarm reaction, 479
—— thiocyanate therapy for, followed by goiter and myxedema, 446*
—— urinary steroids in; effects of sodium deprivation and of DOCA, 661†
VIRILISM: *see also* Adrenals, disorders; Cushing's syndrome; Hair; Hermaphrodism; Ovary
—— associated with sympathicotropic (Leydig) cell tumor of ovary, 486*
—— in women, during testosterone therapy of metastases of breast cancer, 1314*
—— virilizing tumors of the ovary, 112
—— with tumor of ovary, in postmenopausal woman, 774*
VITAMINS
—— folic acid (pteroylglutamic acid) antagonists; effect on seminal vesicle

VITAMINS (cont.)
response to testosterone in mice, 674†
—— interrelation with estrogens, 557*
—— pantothenic acid; response of white blood cells to, in the rat, 678†
B
—— deficiency in women; inactivation of estrogen by, 402
—— effect on amino acid oxidase activity in the rat, 684†
C
—— ascorbic acid of chick adrenal; inability of ACTH or epinephrine to deplete, 655†
—— in plasma; effect of chorionic gonadotropin therapy on, 268*
D
—— in treatment of pseudohypoparathyroidism, 862*
E
—— effect of alpha-tocopherol on pregnanediol excretion, in normal and in sterile women, 743*
—— synthetic; effect of, in the menopause, 89*

WATER: *see also* Kidney; Urine; Pituitary disorders, diabetes insipidus
—— and electrolyte balance in diabetic treated with insulin for keto-acidosis, 1245*
—— renal clearance in cirrhosis of liver, with and without ascites, 682†
—— renal excretion of, in Cushing's syndrome, 13*
WEBBED NECK, rudimentary testes and dwarfism, 1333*
WEIGHT: *see* Dwarfism; Growth; Nutrition; Obesity

X-RAYS: *see* Roentgen rays